

## SEQUENCE LISTING

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<120> COMPOSITIONS AND METHODS FOR THE THERAPY  
 AND DIAGNOSIS OF LUNG CANCER

<130> 210121.478C17

<140> US

<141> 2001-07-10

<160> 2002

<170> FastSEQ for Windows Version 4.0

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ccccaggcc cccccccaga gattgttatt tatcaggagc ttgcgatgga agcttttgtc 360
gtctaccgct ggcaaggaga tgcccgccaa aaagctctga aggacttgc gaaatgggtc 420
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<212> DNA
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gaggtgggct gggagattaa catcttacct ggggtccttc agataaacct gttggttttt 180
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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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gccattgtgg	tgactgatgg	agagcgtatt	cttggcttgg	gagacottgg	ctgtaatgga	240
atgggcatcc	ctgtgggtaa	attggctcta	tatacagctt	gcggagggat	gaatcctcaa	300
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<211> 376

<212> DNA

<213> Homo sapiens

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atatcttttg	ataatgttat	ttctattttt	tatttttttt	cattagaagt	taccaaatta	180
agatggtaag	acctctgaga	ccaaaatttt	gtcccatctc	tacccctca	caactgctta	240
cagaatggat	catgtccccc	ttatgttgag	gtgaccactt	aattgctttc	ctgcctcctt	300
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<210> 8

<211> 406

<212> DNA

<213> Homo sapiens

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ctgtgttaaa	gatgctgcta	atgtcagtc	ctgggtgcac	taaaggatct	cttattttat	180
gtaaaacggt	gggattgaca	agatagatct	gatactctgt	taagttaccc	tctgaagcta	240
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aggacaaatt	aaaaggggg	aagagcctta	tcatgatgag	gagtcttggt	ttgacatctt	360
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<210> 9

<211> 330

<212> DNA

<213> Homo sapiens

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ctctggcctt	ccgagaaggt	accatcaatg	tccacgacgt	ggagacacag	ttcaatcagt	180
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<210> 10

<211> 449

<212> DNA

<213> Homo sapiens

<400> 10

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ggtgtctcag ggctgggttg ggggtccaaag tgtaaggacc ccctgccctt agtggagagc 180
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<210> 11

<211> 472

<212> DNA

<213> Homo sapiens

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aacccttggg ggataagaca gccacacatg gctcaggctg ttaggtgtcc actgtcacag 180
tccaaagaga aaggtagcgc ctccaagggg gcagcttaag ccaacatgta agacttgggc 240
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tactggaagg caggagcagt ttcttctttt tcccactctg tgctgggtac ttgggagagg 360
cgaaataaat accagactgt ccactcctca gcctaagggt cttctcaagt cctgcacact 420
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<211> 371

<212> DNA

<213> Homo sapiens

<400> 12

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gaggttgatt taaactcctt aactcactt ctcaratcaa tgaatgggca aaaaaacmcc 240
tcatggctct gggaaggcat gctgaracco gtttttgcaa gtccctgagga atggaaraat 300
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<211> 493

<212> DNA

<213> Homo sapiens

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 234, 235, 236, 237, 238, 239  
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 aggtgccaaa tcccaggaca ggcatgaagt gaccatcatt cagcttcaca cactgatatt 180  
 tcgaatccat ttctgtcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
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 ttgctaattt tgtgacctcc aaagctttac ttctcggaac cttggttcct ccgagcgctc 360  
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 <213> Homo sapiens

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 tgtctttgta ttctgggtaca tcgtcgtact gcacactttt cttttagtag gatctgaagg 480  
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 <213> Homo sapiens

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 gtgagcaggg caaagcctgc taggagcaga atgaccttga ggatcctttg ctcagaactg 420  
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<210> 16  
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 <212> DNA  
 <213> Homo sapiens

<400> 16

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gaagtgggtc attcctttgt ctgaaggagc gacaggagca tctacggtg agaagacaga 180
aagtttggct tcgtcgatgt cttgctgtgt gaattttcca gacttagccc agtcga 236

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<210> 17
<211> 424
<212> DNA
<213> Homo sapiens

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agcagatgca gatgataata ttcttgatta ctcgatgga atggaagaaa tatttgggtc 180
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atctggtggt gagacttgca tttatccaga caaaaaatct gagggagtaa gaatttcac 420
atgg 424

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<210> 18
<211> 154
<212> DNA
<213> Homo sapiens

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<400> 18
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cacaagagac ttaaaggaca ggaggaggag atgg 154

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<210> 19
<211> 445
<212> DNA
<213> Homo sapiens

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caccaatagt gaggaatca ttgaaggaga atataatacg gtgatgctgg caatagggaag 180
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ctgtatttac tcttttgaa tatgg 445

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<212> DNA
<213> Homo sapiens

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ctgggttctg cccagtgag accggaggat gatcccccga ggactgcgca gcatcagctc 180

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ttggtgggcc tctgccttct cttctgtttg g

211

<210> 21

<211> 396

<212> DNA

<213> Homo sapiens

<400> 21

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<210> 22

<211> 277

<212> DNA

<213> Homo sapiens

<400> 22

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tctacatctc	cattatataa	taggatctgg	gatttctgtg	agctaagcag	cttcagatac	240
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<210> 23

<211> 634

<212> DNA

<213> Homo sapiens

<400> 23

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gggattcatt	ggcaaataat	ttcagtgtgg	tgtattatta	aatagaaaaa	aaaaattttg	540
tttctaggt	tgaaggctca	attgatacgt	ttgacttatg	atgaccattt	atgcactttc	600
aaatgaattt	gctttcaaaa	taaatagaaga	gcag			634

<210> 24

<211> 512

<212> DNA

<213> Homo sapiens

<400> 24

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aagactgaca cagataaaaa ggaattagac ccaaatacgt gaacaggaat gaaatagagg 180
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gtgctcataa atttgacaat gtagaggaaa tatcttttagt ttttaattagc tttttatttt 300
agtttttctc aaaaactaaa acttaataaa actcaaccaa gacaaaatag acaatcagaa 360
tgtaggcata cctcagagat gtggcggatt tggtttcaga ctactgcaat aaaccaaata 420
tggcaataaa aggagtcaca gaaagtgggt tcccagtgta tatatataaa agttacattt 480
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<210> 25
<211> 461
<212> DNA
<213> Homo sapiens

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aaagaacatt cgtgggtggt tagtgatgag gttaatatcc cctctctgtc cacctccaca 180
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ggatacctga aaatgtgatt ttatatattc ttggcatcca ggggagaaaa atcaaaaagc 360
aaggaagtta cagttatctc ccagaaatt aatgggtcat gtcaagacta taggttttca 420
tttccttctg ttgcttggtta gaatgatgtt cttgtgggaa a 461

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<210> 26
<211> 317
<212> DNA
<213> Homo sapiens

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<400> 26
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atgaatttca cgaggctatc atctaacagt gggggctttc tacacacgtg gtgccaaaat 180
gtgtcattct gagtcaattg caattcctct ctaggagtga aaagagataa aagataagcc 240
aagaacctg gacagattct tgggtgttgg gacaaagagg aaaggacctg agaatggggc 300
tgggtggggag agggggg 317

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<210> 27
<211> 250
<212> DNA
<213> Homo sapiens

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<400> 27
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ttcttcatt atttttccct cctaccactg agttttgtaa tgaattcctt gtgtatacaa 180
gcaatacagg tgaatactaa actgttattt ttagcttctt caaaagctat tttagaaaagc 240
ttcctggaaa 250

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<210> 28
<211> 532
<212> DNA
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<400> 28

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cctatatcat tcatttatac agaagctgct tgctgcttag caagttgggtg ggtttgattt 60
tccttggttg ctttgcagac ctcccttgag aggattcctt ctggatggag atttctttgt 120
tgctgtctcc cttgccacaa ctctgaccaa gattgcattg cgctatgtag ctttggttca 180
ggagaagaaa aagcaaaatt cttttgttgc tgaggctatg ttgctcatgg ctactatcct 240
gcatttgggg aaatcctctc ttctaagaa gccattact gatgatgatg tggatcgaat 300
ttccctgtgc ctcaagggtct tgtctgaatg ttcaccttta atgaatgaca ttttcaataa 360
ggaatgcaga cagtcctctt ctacatggt atctgctaaa ctagaagaag agaaattatc 420
ccaaaagaaa gaatctgaaa agaggaatgt gacagtacag cctgatgacc ccatttcctt 480
catgcaacta actgctaaga atgaaatgaa ctgcaaggaa gatcagtttc ag 532

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<210> 29

<211> 486

<212> DNA

<213> Homo sapiens

<400> 29

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ctgttttttg acttaattaa cywttgcaag tggaaaccaa gaaataattg tagcataact 60
ctctctattg tcatgttgct tctttctgca aatatatctt acaagttaga ctttaaacct 120
ttgatctccc acacaaaag agaaaataat atttatatgg aagtaatttt attttagtgt 180
ttgtgattta ttgtggagag caggbgttta aaaatttttag aatttctttt taacaaaatc 240
aaatacattg ttaaggtaac aaagaataat tctacttttc agcatttcaa agcaacatat 300
tctacaactt caaagatatt tgcaaaaata atacaactgt tgaagttcaa atgttatgga 360
aagaaacatt agaagtatga aaagtgggtac aaaaacatgt ttctttttat tctcttggat 420
atatatctat atatttagga aaatacatat atgtatgtgt atgtatatat atgtatgaaa 480
atatac 486

```

<210> 30

<211> 240

<212> DNA

<213> Homo sapiens

<400> 30

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aagacctgag gaaggaaaac aaattggctt cctgctgaag aakcaaaaata gacatttttt 60
aatgtctctt gacccagtt ccaagttcac cctgttgctt gttcttcctc ccaccttttg 120
gggttctata actgcatccc ccacacatct ttcaccacca cccatacat accagctctc 180
ctgttggtggg attcaggaca taggaagagt tgctgaaggc acgggtgctt ttgggattcg 240

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<210> 31

<211> 233

<212> DNA

<213> Homo sapiens

<400> 31

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ccattgatgc aggatatcgg cacattgact gtgcctatgt ctatcagaat gaacatgaag 60
tgggggaagc catccaagag aagatccaag agaaggctgt gaagcgggag gacctgttca 120
tcgtcagcaa gttgtggccc actttctttg agagaccct tgtgaggaaa gcctttgaga 180
agacctcaa ggacctgaag ctgagctatc tggacgtcta tcttattcac tgg 233

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<210> 32

<211> 233

<212> DNA

<213> Homo sapiens

<400> 32  
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ggcttggggg caagaaacag ccagcaagag ttaggggcct tagggcactg ggctgttggt 180  
ccattgaagc cgactctggc cctggccctt acttgcttct ctagctctct agg 233

<210> 33  
<211> 319  
<212> DNA  
<213> Homo sapiens

<400> 33  
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ctggaattgc ttggttctcc tccatgtggc ctctccagta ggctagctca ggcttattca 120  
catgatggct tcaggattcc aaagagagtg agagtagaag ctgaaagact tcttgagtcc 180  
ttggcctgga actgggacta ggacagtgtc acttctgcta agttcttttg gtcagagcaa 240  
atcacaaaggc tttaccaga ttcaagggat gagaaacaga ctacatgtct tgatgagggg 300  
aaccacaaag agcttgtgg 319

<210> 34  
<211> 340  
<212> DNA  
<213> Homo sapiens

<400> 34  
tacagattta attcatgtta ttaactccct gccttttacc tcctccctcc tcccttggca 60  
caactgccag atggatgtgg ctggaagtca gaggacattc tcgtgggttc gtgggcctag 120  
ggtacaaatg acctcagcgt gacagcaaac aggacagaga agaccaggct cttactcagg 180  
aatccaccag ccaggagaaat gacaatgttg aacaccggaa ccctgatgat atctgtcaca 240  
tttgtaagggt tgatttcaga gtcaggagtg gagacatcgg cagttgactt ggggtggagct 300  
tgggtcacag ttctggggct ggtatagagt gggcacaagg 340

<210> 35  
<211> 170  
<212> DNA  
<213> Homo sapiens

<400> 35  
acatgggtcc ttcactcctc gctgagatgt tgcggcagcc ttttcttcca atgcgggttgt 60  
ggcaggagaa tccacggatg taatgttttc acctttttcc ctgagggtgc tttctgagga 120  
accagycctt aagagggtgg gtcttgatt cctgaccag gcgtccggca 170

<210> 36  
<211> 475  
<212> DNA  
<213> Homo sapiens

<400> 36  
ctgttttttg acttaattaa ccattgcaag tggaaaccaa gaaataattg tagcataact 60  
ctctctattg kcatgttgct tctttctgca aatatatctt agaagttaga ctttaaacct 120  
ttgatctccc acacaaaag agaaaataat atttatatgg aagtaatttt attttagtgt 180  
ttgtgattta ttgtggagag cagggtgtta aaaatttttag aatttcttta acaaaattct 240  
aaagagaaaa taaaaaagaa atcacagtat ttacagagat aacagaatgg cttagccatg 300  
caaaacaaat aacttttggt tttccccttt tacttttggt taaatgttga ccaagattca 360

```

atTTTTTTTtC ctGCCAAaTa aaacttcaat aaaagtttag aggcaaaata acgtattttc 420
TTTTTTTccc ataataTTTT atacagcatc gagtctaaga atattttatg cattt 475

```

```

<210> 37
<211> 246
<212> DNA
<213> Homo sapiens

```

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<400> 37
ccttgagctt gggccgggca ctgaggcgcc ccacatatgc tgagagcagg gggaacgcat 60
ccaggcagcc aggggctagg acctcatgga tcagcagcaa gtccagcagg ttgtagtcag 120
cgaaggagat ctgggtctccc acaatgaagg tcttgccctcc ctgggttctgg gacagcaggg 180
tctcaaaagg cttcagttgc cggggcagtg ccttcacata gtcatccttg cccacctcat 240
agttgg 246

```

```

<210> 38
<211> 512
<212> DNA
<213> Homo sapiens

```

```

<400> 38
gctggaagtg aaatgcagat cagacccatt gtgatgtcac agaaagatgg ggacaggcca 60
aagaaaaaag tgactttcaa ctcttcttcc atcattttta tcatcaccag tgatgaatca 120
ctgtcagttg acgacagcga caaaaccaat ggggtccaaag ttgatgtaat ccaagtctgt 180
cctttgtagg aatgaagaat ggcaacgaaa gatggggcct taaattggat gccacttttg 240
gactttcatc ataagaagtg totggaatac ccgttctatg taatatcaac agaaccttgt 300
gggtccagcag gaaatccgaa ttgcccatat gctcttgggc ctcaggaaga ggttgaacaa 360
aaacaaattc ttttaattca acgggtgctt tacataatga aaaaaccact tgtggcacac 420
gatgggcac ctaacatcatc atcttctaata gtgttggaga ttttcatttc aaatatattt 480
tttaaattac tctattttcc aaaacacgta at 512

```

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<210> 39
<211> 370
<212> DNA
<213> Homo sapiens

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<400> 39
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atgtactcga ctctgtccta tttagccttc ccatacctga cttctaata cttttcctgg 120
tgccctycca tctccctaac cccccctcac agggatgcct cctcccaagg ctccagaaac 180
totgaccttc gcactgctgg agggagccca tgaattgctg gtcaatatcg ctcatcctct 240
akactccatc ctgctgtgct ttcttcctac aagagctaga gaggcactga ctgataaata 300
cctgtcacct gcccttttcc cagaggggtga aactccaccc actcccaactg cagaaatgaa 360
tcttaaattgg 370

```

```

<210> 40
<211> 204
<212> DNA
<213> Homo sapiens

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<400> 40
cctgagggtt ttccctttaa attttcattg agttgtccat ctccagcata tagggcttca 60
ggagcagagc agaccttggt tttagtgggt ccatgggata aaatgggatt ggaggagcta 120
gaagaattca gggctctggc caatctgcca gtcttcctga aatatcgaaa atacaccagg 180

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gctgctatat cagagccacc ctgg

204

<210> 41  
<211> 447  
<212> DNA  
<213> Homo sapiens

<400> 41  
caggcagcaa ttcgtaaaga attaaatgag tacaaaagta atgaaatgga ggtacatgca 60  
tcaagcaagc acttgacaag attccacagg ccatagagat tttcttctga gaagaatttg 120  
tgtttaattt tttgatacca aactgaaca ttcacaggg aactttcctg aagttcagct 180  
caagactacc ctacctgctg tgtttgtgag aagagtagga tcacacacac aggtgcaatc 240  
ttgaccacac ttacctgcaa gaggagtaac cagaggacac acttccttcc ttctttggtg 300  
tctgaggagt gtgaactggt ggggtcagtt aagacccaac ataactctat cagaagaaaa 360  
ctgtttgttg cctttcaacc ttgttttaca gttctgcagt gtagtggagg acgggcaacg 420  
tgcattgtgca gggtcaccac tcccagg 447

<210> 42  
<211> 498  
<212> DNA  
<213> Homo sapiens

<400> 42  
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attagattct cattgcaactg aactatattt atatgcctaa gtatgtagaa gtaaaattat 120  
ataccccaaa aggattttat ctgtttgtat atattaaatg ttatttctgc atataggggc 180  
ttttatggag aaactgatga tgataagctt aatactcact tgtttagcag catctgaatg 240  
cacaaatgct ttatatatct cttctgcttt acagggcaaa agatcagact ctgttttctt 300  
atagtcttca caagccagcc agaactcaat attctcctca ctgaattcag actttaggaa 360  
acttccaaag acattttgac cagtttggtt ggcaagaagt tttccagag attgagacca 420  
ttgcattact tcagcagcag aaagtacatc cttggacttg gaagatttca ttccagattc 480  
cagatgtggg atcataga 498

<210> 43  
<211> 312  
<212> DNA  
<213> Homo sapiens

<400> 43  
caggaaggcg gccagaatg tgagtgcaaa gattggttcc tgagagcccc gagaagaaaa 60  
ttcatgacag tgtctgggct gccaaagaag cagtgccctt gtgatcattt caagggcaat 120  
gtgaagaaaa caagacacca aaggcaccac agaaagccaa acaagcattc cagagcctgc 180  
cagcaatttc tcaaacaatg tcagctaaga agctttgctc tgcctttgta ggagctctga 240  
gcgcccactc ttccaattaa acattctcag ccaagaagac agtgagcaca cctaccagac 300  
actcttcttc tc 312

<210> 44  
<211> 417  
<212> DNA  
<213> Homo sapiens

<400> 44  
ctaacacatt tactctccac tttcgtact ctggtagcca tgtaacccc atcagagatt 60  
ccttctcaag ccatgtctca gagctgagag gcatcccagc aagttttgca gctcacagtt 120



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ttttccgtaa attacttatt ctataaaatt ggagtaggcc ataaactttg gagggcccta 180
gaccaatttt ttggattatt tttcgtcttc tatcattccg ctgatcttag atattctctg 240
cattaaatat taaatatcac ttctaggctg aaaaatcccc ctaaaaatat ttctagctca 300
gatttttcct ccaaattctg caatagaaga tcacaatgtg aactctgcat ctccatgtta 360
aagtctaata gacattcaca cttagcatgt ctcaaagaaa tctcatgtaa accatgg 417

```

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<210> 45
<211> 494
<212> DNA
<213> Homo sapiens

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<400> 45
cgcggtgtctg tgggtatgtgt acacgtgcat gttctgcatg tctgtaggtc acacatgctt 60
tgggtgcatgt acacgtgtgt gtgtgtatgc gtgtaggagc tcacacttgt gtacacgttt 120
gtgtgcatgc atgtgtgcag gagcttgcaac gtttgtggtg ggtacatgta catatgtgag 180
tgatcctgtg tgcaagcccc catgtggaca tggctatgag tgagcgtgga gccaaaagcc 240
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gggtgtgaatc atgcagcagg cccactgtgc gtgtctgaga cgggtctgtg cagggactgg 360
gtgtgaatca gtgaccgtgt ctctgaccaa catgctgaat tacaaattga taatttatta 420
acctgtgcag caacaaataa gatttttcaa aactcaaaa agtgcctaaa gttgacatta 480
cttgcttcaa agtt 494

```

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<210> 46
<211> 516
<212> DNA
<213> Homo sapiens

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<400> 46
ccagtccaac ctgctcctca ttattgtata aatgagcaga atctatatgg cggaaccag 60
cttctattgc taattttgtg acctccaaag ctttacttct cggaacctcc tcctttggcc 120
gtcattttgat cattcaactc tttgtcagtg gcaactcccg ctatttttgt gtgttggttt 180
gttactacac agtgagcaca aacatggtgg tccaatacag aggcctctcc tgtcaggtgt 240
caaccagaaa gttcatctaa cactgtgata tttgcatcct tcttgaacag ttgttggtctg 300
aagattcatt tgatgaatcg atttttcaaa agagatgatt cttggttctt ccgagcgctc 360
agctctcccg ccgagcttct ttgagacgtc ctcaggtgtc ctttgacgat gcgtcctcca 420
ctttcacaca ctctagcatt ccttcactgg ggtcttcatt gccccacatt gggcagccag 480
gaatgttggg gtgatcagac acaacaccag gtcatg 516

```

```

<210> 47
<211> 459
<212> DNA
<213> Homo sapiens

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```

<400> 47
ccaattcaga gtggcattct gcatttctgt ggcttccaag tcttagaacc tcaactgaca 60
tatagcattg ggcacactcc agcagacgcc cgaattcaaa tcctggaagg atggaagaaa 120
cgcttgagga atatttggga tgagacacca ctgtattttg ctccaagcag cctctttgac 180
ctaaacttcc aggcaggatt cttaatgaaa aaagaggtac aggatgagga gaaaaacaag 240
aaatttggcc tttctgtggg ccatacattg ggcaagtcca tcccaactga caaccagatc 300
aaagctagaa aatgagattc cttagcctgg atttcttctt aacatgttat caaatctggg 360
tatctttcca ggcttccctg acttgcttta gtttttaaga tttgtgtttt tctttttcca 420
caaggaataa atgagaggga atcgaksaaa aaaaaaaaaa 459

```

```

<210> 48

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<211> 430  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
 cctatatattca gccacagcct ctgggagtg tgctgataat cggagcttgg aattaccct 60  
 tcgtttctcac cattcagcca ctgataggag ccatcgctgc aggaaatgct gtgattataa 120  
 agcctttctga actgagtgaa aatacagcca agatcttggc aaagcttctc cctcagtatt 180  
 tagaccagga tctctatatt gttattaatg gtggtgttga ggaaaccacg gagtcctga 240  
 agcagcgatt tgaccacatt ttctatacgg gaaacactgc ggttggcaaa attgtcatgg 300  
 aagctgctgc caagcatctg acccctgtga ctcttgaact gggagggaaa agtccatgtt 360  
 atattgataa agattgtgac ctggacattg ttgacagacg cataacctgg ggaaaataca 420  
 tgaattgtgg 430

<210> 49  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<400> 49  
 ccatccgaag caagattkca gatggcagtg tgaagagaga agacatattc tacacttcaa 60  
 agctttggwg caattcccat cgaccagagt tggtcgcacc agccttggaa aggtcactga 120  
 aaaatcttca attggattat gttgacctct acctatttca ttttccagtg tctgtaaagc 180  
 caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac acagtggatc 240  
 tctgtgccac gtgggaggcc rtggagaagt gtaaagatgc aggattgg 288

<210> 50  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 50  
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 accagtgggtg atggaaagca ctgtcttctt actccggaag ggtcctttgt catacatggc 120  
 agcgtaaagt taagcaaact ctctatgaa cactcgctca aaccagcctt tcagaatggc 180  
 agggactcca aaccactgca gggggaactg gaatatcaca aggtctgcgg cttccagctt 240  
 cttttgttca gccacaatat ctgggctcag atggccttct ttataagcca gaacagactc 300  
 ggcaggatac tgaaagtctg cagggtcctt cagtttacct gtgatgtcct ttctggaaat 360  
 gatgggattg aagttcatgg catagaggtc cgactccacc acctcccatc c 411

<210> 51  
 <211> 503  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
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 tcagttgtaa ataatgaatt aggggccaaa atgcaaaacg aaaaatgaag cagctacatg 180  
 tagttagtaa tttctagttt gaactgtaat tgaatattgt ggcttcatat gtattatttt 240  
 atattgtact tttttcatta ttgatggttt ggactttaat aagagaaatt ccatagtttt 300  
 taatatccca gaagtgaagc aatttgaaca gtgtattcta gaaaacaata cactaactga 360  
 acagaagtga atgcttatat atattatgat agccttaaac ctttttcctc taatgcctta 420  
 actgtcaaat aattataacc ttttaaagca taggactata gtcagcatgc tagactgaga 480

ggtaaact gatgcaatta aga

503

<210> 52  
<211> 503  
<212> DNA  
<213> Homo sapiens

<400> 52  
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ttgtgcaccc tccacaaaac atacaaagtt taaaagtttg gatctttttc tcagcaggta 120  
tcagttgtaa ataatagaatt agggggccaaa atgcaaaacg aaaaatgaag cagctacatg 180  
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atattgtact tttttcatta ttgatggttt ggactttaat aagagaaatt ccatagtttt 300  
taatatccca gaagtgaagac aatttgaaca gtgtattcta gaaaacaata cactaactga 360  
acagaagtga atgcttatat atattatgat agccttaaac ctttttcctc taatgcctta 420  
actgtcaaat aattataacc ttttaaagca taggactata gtcagcatgc tagactgaga 480  
ggtaaact gatgcaatta aga 503

<210> 53  
<211> 531  
<212> DNA  
<213> Homo sapiens

<400> 53  
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gaatagtaca tgggaaattc tctttaggcc aggtctagta ttacagkgtg gkgctcaagg 120  
ccgccatca gaacagtgat actctcccaa cagatttcat ccaccccgtc tccactaact 180  
tttgccataa aaattcctct gaattgtatc ttcttggaag aagtaaatat ctgttcgact 240  
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gaagacaaaa cagtgccaca aataagcagt agatgaccct gtgacaagac ggcattgcag 420  
aacaagact gacgttttaa ggggagtcac gcagagtaac atgggaacac aagcctgaca 480  
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<210> 54  
<211> 450  
<212> DNA  
<213> Homo sapiens

<400> 54  
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aggcatttaa agatgtttct ggcattttct ttttatttgt aagggtggtg taactatggt 180  
tattggctag aaatcctgag ttttcaactg tatatatcta tagtttgtaa aaagaacaaa 240  
acaaccgaga caaaccttg atgctccttg ctcggcgttg aggtgtggtg gaagatgcct 300  
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gggcattcat ttgcttcag gttgtcttgt ttctgtatat agtgacatag cattctgctg 420  
ccatcttagc tgtggacaaa ggggggtcag 450

<210> 55  
<211> 648  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 55

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tgtctgcaac caggtggaat gtcattcctta cttcaaccag agaaaactgc tggatttctg 120
caagtcaaaa gacattgttc tggttgccta tagtgctctg ggatcccacc gagaagaacc 180
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ggtcctggcc aagagctaca atgagcagcg catcagacag aacgtgcagg tgtttgaatt 360
ccagttgact tcagaggaga tgaaagccat agatggccta aacagaaatg tgcgatattt 420
gacccttgat atttttgctg gccccctaa ttatccattt tctgatgaat attaacatgg 480
agggcattgc atgaggtctg ccagaaggcc ctgctgtgag atggtgacac agaggatggc 540
tctatgctgg tgactggaca catcgccctt ggttaaactt ctctgcttg gygayttcag 600
caagctacag caaagcccat tggccggaaa aaatatcaag ggtcaaat 648

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&lt;210&gt; 56

&lt;211&gt; 536

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 56

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ctggcatgag aatatttttt tttttaagtg cggtagtttt taaactgttt gtttttaaac 60
aaactataga actcttcatt gtcagcaaag caaagagtca ctgcatcaat gaaagttcaa 120
gaacctcctg tacttaaaaca cgattcgcaa cgttctgtta tttttttgt atgtttagaa 180
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ctcgaagccg aattccagca cactggcggc cgttactagt ggatccgagc tcggtaccaaa 420
gcttggccgt aatcatggtc atagctgttt cctgtgtgaa attgttatcc gtcacaatt 480
ccacacaaca tacgagccgg aagcataaag tgtaaaagcct ggggtgccta atgagt 536

```

&lt;210&gt; 57

&lt;211&gt; 391

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 57

```

aggaactact gtcccagagc tgaggcaagg ggatttctca ggtcatttgg agaacaagtg 60
ctttagtagt agtttaaagt agtaactgct actgtattta gtggggtgga attcagaaga 120
aatttgaaga ccagatcatg ggtgggtctgc atgtgaatga acaggaatga gccggacagc 180
ctggtgtgca ttgctttctt cctccccatt tggacccttc tctgccctta catttttgtt 240
tctccatcta ccaccatcca ccagtctatt tatttgtcta gttggatttc atttcttctg 300
gaaaatttat tgtttatttg catgtgaccc ttgactgatg gcttcattag cattytgttt 360
ttctttttgg atccttaata gaaaactcaa t 391

```

&lt;210&gt; 58

&lt;211&gt; 455

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 58

```

gaagacatgc ttacttcccc ttcaccttcc ttcattgatg gggaagagtg ctgcaaccca 60
gccctagcca acgccgcatg agagggagtg tgccgagggc ttctgagaag gtttctctca 120
catctagaaa gaagcgctta agatgtggca gcccctcttc ttcaagtggc tcttgtctctg 180
ttgccctggg agttctcaaa ttgctgcagc agcctccacc cagcctgagg atgacatcaa 240
tacacagagg aagaagagtc aggaaaagat gagagaagtt acagactctc ctgggcgacc 300

```

```

ccgagagctt accattcctc agacttcttc acatgggtgct aacagatttg ttcctaaaag 360
taaagctcta gaggccgtca aattggcaat agaagccggg ttccaccata ttgattctgc 420
acatgttttac aataatgagg agcaggttgg actgg                                     455

```

```

<210> 59
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 264, 266
<223> n = A,T,C or G

```

```

<400> 59
ctcagaggca gcgtagcgggt gtgctctttg tgaaattcca ccatggcgta ccgtggccag 60
ggtcagaaaag tgcagaaggt tatgggtgcag cccatcaacc tcatcttcag atacttacaa 120
aatagatcgc ggattcaggt gtggctctat gagcaagtga atatgcggat agaaggctgt 180
atcattgggtt ttgatgagta tatgaacctt gtattagatg atgcagaaga gattcattct 240
aaaacaaagt caagaaaaca actngntcgg atcatgctaa aaggagataa tattactctg 300
ctacaaagtg tctccaacta gaaatgatca atgaagtgag aaattgttga gaaggataca 360
gtttgttttt agatgtcctt tgtccaatgt gaacattt                                     398

```

```

<210> 60
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<400> 60
gacttctgag acctggggca cccgggcctt tgcggcagct actggcaggg cctggccacc 60
tcataggact cagttccctt ctgaacactc gggggacatg ggcctctaac tgcccactct 120
gatatgcctg ggtgagccta ggagggaagg ctctgatttg gatttctcca gtcaaagctc 180
acagaaaaaa acctggcact ttgattttca tgggatggtc ctaacagggg cagtcacctc 240
cgagcagttt gggaaccag tttcttgtcc tgggccctca ggtcagcctg gctgaattag 300
gaccttctt tggcacagggt gtgagaaaga gcttggggaa cgcttggcat tatggagggc 360
tggaaggggc tcaaccccg tttggagaga agtttgggat ggagtgggcg agagattgag 420
agagcgagca ggaaaagagg tcttgagacc tgggactgat ggtggataag gcctggaaaag 480
aasatgacsa ggaggaggag agagggaagt gggtagatga ggagcaggct ga                                     532

```

```

<210> 61
<211> 466
<212> DNA
<213> Homo sapiens

```

```

<400> 61
gcgacggcga cgtctctttt gactaaaaga cagtgtccag tgctccagcc taggagtcta 60
cggggaccgc ctcccgcgcc gccaccatgc ccaacttctc tggcaactgg aaaatcatcc 120
gatcggaaaa cttcgaggaa ttgctcaaag tgctgggggt gaatgtgatg ctgaggaaga 180
ttgctgtggc tgcagcgtcc aagccagcag tggagatcaa acaggaggga gacactttct 240
acatcaaaac ctccaccacc gtgcgcacca cagagattaa cttcaagggt ggggaggagt 300
ttgaggagca gactgtggat gggaggccct gtaagagcct ggtgaaatgg gagagtgaga 360
ataaaatggg ctgtgagcag aagctcctga agggagaggg cccaagacc tcgtggacca 420
gagaactgac caacgatggg gaactgatcc tgaccatgac ggcgga                                     466

```

<210> 62  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 62  
 ttttgaat ttt acaccaagaa cttctcaata aaagaaaatc atgaatgctc cacaatttca 60  
 acataccaca agagaagtta atttcttaac attgtgttct atgattat ttt gtaagacctt 120  
 caccaagttc tgatatcttt taaagacata gttcaaaatt gcttttgaaa atctgtattc 180  
 ttgaaaatat ccttggtgtg tattagggtt ttaaatacca gctaaaggat tacctcactg 240  
 agtcatcagt accctcctat tcagctcccc aagatgatgt gtttttgctt accctaagag 300  
 aggttttctt cttattttta gataattcaa gtgcttagat aaattatgtt ttctttaagt 360  
 gtttatggta aactctttta aagaaaattt aatatgttat agctgaatct ttttggtaac 420  
 tttaaatctt tatcatagac tctgtacata tggtcaaatt agctgcttgc ctgatgtgtg 480  
 tatcatcggt gggatgacag aacaaacata tttatgatca tgaataatgt gctttgtaaa 540  
 aagatttc 548

<210> 63  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 63  
 ttccaaagc ggagacttcc gacttcctta caggatgagg ctgggcattg cctgggacag 60  
 cctatgtaag gccatgtgcc ccttgcccta acaactcact gcagtgtctt tcatagacac 120  
 atcttgcagc atttttctta aggetatgct tcagtttttc tttgtaagcc atcacaagcc 180  
 atagtggtag gtttgccctt tggtagagaa ggtgagttaa agctgggtgga aaaggcttat 240  
 tgcattgcag tcagagtaac ctgtgtgcat actctagaag agtagggaaa ataattgcttg 300  
 ttacaattcg acctaatatg tgcattgtaa aataaatgcc atatttcaaa caaaacacgt 360  
 aattttttta cagtagtatt tattaccttt tgatatctgt tgttgcaatg ttagtgatgt 420  
 tttaaaatgt gatcgaaaat ataattgctt taagaaggaa cagtagtgga atgaatgtct 480  
 aaaagatctt tatgtgttta tgggtctgcag aaggattttt gtgatgaaa gggatttttt 540  
 gaaaaat 547

<210> 64  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 374, 443, 444, 452, 476, 489, 515, 523  
 <223> n = A,T,C or G

<400> 64  
 cacctmctcc cscwgggcgc ttwtctsgac gccttgccca scggggccgc cgacccccctg 60  
 srccatggac cccgtctgcc cscctggggt gtygatktct ctgcttttcc tgrckgagc 120  
 tgcaactggc gatgctgac argagccaac aggaaataac rcggagatct gkctcctgcc 180  
 cctagactac kgacctgcc kggccctact tytccgytac tactacgaca ggyacacgca 240  
 gagctgccgc cwgttctctg rckggggctg crasggcaac rccaacwatt yctacacckg 300  
 kgaggmttrc gackatgctw gstggargat agaaaaagt cccaaasttt gccggctgma 360  
 agtgaatgag gacnaccagg gtgaggggta cacagataag tatttcttta atctaakkwc 420  
 catgacatgw gaaaaattct ttnncggtg gngtcaccg accggattga gaacangttt 480  
 gcagatgang ctactgggat gggctcctgc rcacnaaaga aantatca 528

<210> 65  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 408  
 <223> n = A,T,C or G

<400> 65  
 kgaatgaasa acgaacgctg gaagtagaaa tagagcctgg ggtgagagac ggcattggagt 60  
 acccctttat tggagaaggt gagcctcacg tggatgggga gcctggagat ttacgggtcc 120  
 gaatcaaatg tgtcaagcac ccaatatttg aaaggagagg agatgatttg tacacaaatg 180  
 tgacagtctc attagttgag tcaactgggtg gctttgagat ggatattact cacttggatg 240  
 gtcacaaggt acatattttcc cgggataaga tcaccaggcc aggagcgaag ctatggaaga 300  
 aaggggaagg gctccccaac tttgacaaca acaatatcaa gggctctttg ataatacactt 360  
 ttgatgtgga ttttccaaaa gaacagttaa cagagggaagc gagagaangt atcaaacagc 420  
 tactgaaaca aggggtcagtg cagaaggtat acaatggact gcaaggatat tgagagtga 480  
 taaaattgga ctttgtttta aataaagtga ataagcgata tttattatct gcaagggtttt 540  
 ttttgtg 547

<210> 66  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
 ggggaggtct acgcttctag agcttgagcc agcggggcga ccctgcagtg gcaggactcg 60  
 gcaccgcgcc ctccaccgcc ggttggtggc ctgcgtgaca gtttcctccc gtcgacatcg 120  
 aaagggaagc ggacgtgggc gggcagagag cttcatcgca gtaggaatgg cagcccatc 180  
 tatgaaggaa agacaggtct gctggggggc ccgggatgag tactggaagt gtttagatga 240  
 gaacttagag gatgcttctc aatgcaagaa gttaagaagc tctttcgaat caagttgtcc 300  
 ccaacagtgg ataaaaatatt ttgataaaaag aagagactac ttaaaattca aagaaaaatt 360  
 tgaagcagga caatttgagc cttcagaaac aactgcaaaa tcctaggctg ttcataaaga 420  
 ttgaaagtat tctttctgga cattgaaaaa gctccactga ctatggaaca gtaatagttt 480  
 gaatcatagt gaacatcaat acttgttccc tatatacgac acttgataat taaga 535

<210> 67  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
 atttctgcc aattaattcaa acagtcatat gcaggctcgt taatttattt gtgcttttgt 60  
 ttcattctct acaaggccct cttagctcta aaacttgaca gtggaataag gaaatgtttt 120  
 tccaaatctg cattgcgggt gagatcctca acatcagcat gttgagatgg acctcaacct 180  
 cacctctaac cctgaaacac actactcgat attatcttag gtatgtttta gggtttagtt 240  
 tgtaaaataa taatttattt ttgaaggaaa tataaaatat taaagagtaa taatagctat 300  
 cattttttta gattcaatct aaaacaatgg actctttttt tttccatttg tgatgtagat 360  
 aagcaagaca attttgatca tgagtgggtga aaagaggatc aaacttgact attcttgcaa 420  
 tggcagtgca gcaacaagcc tttcattttac attaaattat aacttttcat tcatttcctaa 480  
 accaaactta aaattctgct ttcctttgag tagaaggtat ttaactt 527

<210> 68  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 gggaaacttc atgggtttcc tcactctgtca tgtc gatgat tatatatgga tacatttaca 60  
 aaaataaaaa gcggaattt tcccttcgct tgaatattat ccctgtatat tgc atgaatg 120  
 agagatttcc catatttcca tcagagtaat aaatatactt gctttaattc ttaagcataa 180  
 gtaa acatga tataaaaaata tatgctgaat tacttgtgaa gaatgcattt aaagctattt 240  
 taaatgtgtt tttatttgta agacattact tattaagaaa ttggttatta tgcttactgt 300  
 tcta atctgg tggtaaagggt attcttaaga atttgcagggt actacagatt ttcaaaactg 360  
 aatgagagaa aattgtataa ccactctgct gwtcccttag tgcaatacaa taaaactctg 420  
 aaattaaaac t 431

<210> 69  
 <211> 399  
 <212> DNA  
 <213> Homo sapiens

<400> 69  
 gacacggcgg acacacacaa acacagaacc acacagccag tcccaggagc ccagtaatgg 60  
 agagccccaa aaagaagaac cagcagctga aagtcgggat cctacacctg ggcagcagac 120  
 agaagaagat caggatacag ctgagatccc agtgcgcgac atggaagggtg atctgcaaga 180  
 gctgc atcag tcaaacaccg gggataaatc tggatttggg ttccggcgtc aagggtgaaga 240  
 taatacctaa agaggaacac tgtaaaatgc cagaagcagg tgaagagcaa ccacaagttt 300  
 aaatgaagac aagctgaaac aacgcaagct ggttttatat tagatatttg acttaaaacta 360  
 tctcaataaa gttttgcagc tttcaccaar aaaaaaaaa 399

<210> 70  
 <211> 479  
 <212> DNA  
 <213> Homo sapiens

<400> 70  
 cgcggcggag ctgtgagccg gcgactcggg tccctgaggt ctggattctt tctccgctac 60  
 tgagacacgg cggacacaca caaacacaga accacacagc cagtcccagg agccagtaa 120  
 tggagagccc caaaaagaag aaccagcagc tgaaagtcgg gatcctacac ctgggcagca 180  
 gacagaagaa gatcaggata cagctgagat cccagggtgct gggaaaggaa atgcgcgaca 240  
 tggaagggtga tctgcaagag ctgcatcagt caaacaccg ggataaatct ggatttgggt 300  
 tccggcgctca aggtgaagat aatacctaaa gaggaacact gtaaaatgcc agaagcagggt 360  
 gaagagcaac cacaagttta aatgaagaca agctgaaaca acgcaagctg gttttatatt 420  
 aggatatttg acttaaaacta tctcaataaa gttttgcagc tttcaccaaa aaaaaaaaa 479

<210> 71  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<400> 71  
 ctcagcgggt gccaacagat catgagccat cagctcctct ggggccagct ataggacaac 60  
 agaactctca ccaaaggacc agacacagtg rgcaccatgg gacagtgtcg gtcagccaac 120  
 gcagaggatg ctcaggaatt cagtgatgtg gagagggcca ttgagaccct catcaagaac 180



```

tttcaccagt actccgtgga ggggtgggaag gagacgctga ccccttctga gctacgggac 240
ctgggtcacc agcagctgcc ccctctcatg ccgagcaact gtggcctgga agagaaaatt 300
gccaacctgg gcagctgcaa tgactctaaa ctggagttca ggagtttctg ggagctgatt 360
ggagaagcgg ccaagagtgt gaagctggag aggcctgtcc gggggcactg agaactccct 420
ctggaattct tggggggg

```

```

<210> 72
<211> 561
<212> DNA
<213> Homo sapiens

```

```

<400> 72
ggatggtata ctgtaaattc agcatatgga gataccatta tcataccttg ccgacttgac 60
gtacctcaga atctcatggt tggcaaatgg aaatatgaaa agcccgatgg ctccccagta 120
tttattgcct tcagatcctc tacaaaagaaa agtgtgcagt acgacgatgt accagaatac 180
aaagacagat tgaacctctc agaaaactac actttgtcta tcagtaatgc aaggatcagt 240
gatgaaaaga gatttgtgtg catgctagta actgaggaca acgtgtttga ggcacctaca 300
atagtcaagg tgttcaagca accatctaaa cctgaaattg taagcaaagc actgtttctc 360
gaaacagagc agctaaaaaa gttgggtgac tgcatttcag aagacagtta tccagatggc 420
aatatcacat ggtacaggaa tggaaaagtg ctacatcccc ttgaaggagc ggtggtcata 480
atttttaaaa aggaaatgga cccagtgact cagctctata ccatgacttc caccctggag 540
tacaagacaa ccaaggctga c

```

```

<210> 73
<211> 916
<212> DNA
<213> Homo sapiens

```

```

<400> 73
ggagaaaata aggtggagtc ctacttgttt aaaaaatatg tatctaagaa tgttctaggg 60
cactctggga acctataaaag gcaggtatgt cgggccctcc tcttcaggaa tcttctgaa 120
gacatggccc agtcgaaggc ccaggatggc ttttgcctgc gccccgtggg gtaggagggg 180
cagagagaca gggagagtca gcctccacat tcagaggcat cacaagtaat ggcacaattc 240
ttcggatgac tgcagaaaat agtgttttgt agttcaacaa ctcaagacga agcttatttc 300
tgaggataag ctcttttaag gcaaagcttt attttcatct ctcatctttt gtcctcctta 360
gcacaatgta aaaaagaata gtaatatcag aacaggaagg aggaatggct tgctggggag 420
cccatccagg aactgggag cacatagaga ttcacccatg tttgttgaac ttagagtcac 480
tctcatgctt ttctttataa ttcacacata tatgcagaga agatatgttc ttgttaacat 540
tgtatacaac atagcccaa atatatgaag atctatacta gataatccta gatgaaatgt 600
tagagatgct atatgataca actgtggcca tgactgagga aaggagctca cgcccagaga 660
ctgggctgct ctcccgagg ccaaacccaa gaaggtctgg caaagtcagg ctccaggaga 720
ctctgccctg ctgcagacct cgggtgtggac acacgctgca tagagctctc cttgaaaaca 780
gaggggtctc aagacattct gcctacctat tagcttttct ttattttttt aacttttttg 840
ggggaaaagt atttttgaga agtttgtctt gcaatgtatt tataaatagt aaataaagtt 900
tttaccatta aaaaaa

```

```

<210> 74
<211> 547
<212> DNA
<213> Homo sapiens

```

```

<400> 74
agtggcatta acttttagaa tttgggctgg tgagattaat tttttttaat atcccagcta 60
gagatatggc cttaactga cctaaagagg tgtgtgtgta ttaattttt tccggttcct 120

```

```

ttttcttcag taaacccaac aatagtctaa ccttaaaaat tgagttgatg tccttatagg 180
tcactacccc taaataaacc tgaagcaggt gttttctctt ggacatacta aaaaatacct 240
aaaaggaagc ttagatgggc tgtgacacaa aaaattcaat tactgtcatc taatgccagc 300
tgttaaaagt gtggccactg agcatttgat tttataggaa aaaatagtat ttttgagaat 360
aacatagctg tgctattgca catctgttgg aggacatccc agatttgctt atactcagtg 420
cctgtgatat tgagtttaag gatttgaggc aggggtaatt attaaacata ttgcttctat 480
tcttgaaaaa atagaagkgt aaaatgttaa taatacaaat gtcactgtga cctcctccac 540
tgagagg                                           547

```

<210> 75

<211> 793

<212> DNA

<213> Homo sapiens

<400> 75

```

tgaggaagtt gcaagccaac aaaaaagttc aaggatctag aagacgatta agggaaggtc 60
gttctcagtg aaaatccaaa aaccagaaaa aaatgtttat acaaccctaa gtcaataaacc 120
tgaccttaga aaattgtgag agccaagttg acttcaggaa ctgaaacatc agcaciaaaga 180
agcaatcatc aaataattct gaacacaaat ttaatatctt tttttctgaa tgagaaacat 240
gagggaaatt gtggagttag cctcctgtgg agttagcctc ctgtggtaaa ggaattgaag 300
aaaatataac accttacacc ctttttcatc ttgacattaa aagttctggc taactttgga 360
atccattaga gaaaaatcct tgtcaccaga ttcattacaa ttcaaactga agagttgtga 420
actgttatcc cattgaaaag accgagcctt gtatgtatgt tatggatata taaaatgcac 480
gcaagccatt atctctccat gggaagctaa gttataaaaa taggtgcttg gtgtacaaaa 540
ctttttatat caaaaggctt tgcacatttc tatatgagtg ggtttactgg taaattatgt 600
tattttttac aactaatttt gtactctcag aatgtttgtc atatgcttct tgcaatgcat 660
attttttaat ctcaaagctt tcaataaaac catttttcag atataaagag aattacttca 720
rattgagtaa ttcagaaaaa ctcaagattt aagttaaaaa gtggtttgga cttgggaaca 780
ggactttata cct                                           793

```

<210> 76

<211> 461

<212> DNA

<213> Homo sapiens

<400> 76

```

accttgcaat attccctcca gtccatctat cgaggtcttt gcaggaagca tactgggaat 60
tgaaacgaga gcctaaatga catctaagaa aggcagtgtt caataccagg tattaggtga 120
ggatgggatt ctaaggacat cagtgggagg caggagacca ccttcagacc tcagcatgga 180
agcttccaag atccagagga agaggcaaca gcaactgagag tcataggtag aagaatcatc 240
acagccctgc taaccaggca gctgatgcc cctcctcctg gctccctgtg tccaaatcct 300
acaggggcat ctgttggtct aactcaacct gaagccaaag agaagatgag tggagagagg 360
caacatttat agagctcagg tttctagggc tggagaggga tctggaggga cacacaggag 420
acacctggca taacccaaaa atgattaaaa aaaaaaaaaa a                                           461

```

<210> 77

<211> 642

<212> DNA

<213> Homo sapiens

<400> 77

```

ggttgcacga aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 60
gctgtgagac tacctattgt agatattgca ccctatgaca ttgggtgtcc tgatcaagaa 120
tttggtgtgg acgttggccc tgtttgcttt ttataaacca aactctatct gaaatcccaa 180

```

```

caaaaaaaat ttaactccat atgtgttcct cttgtttctaa tcttgtcaac cagtgcaggt 240
gaccgacaaa attccagtta tttattttcca aaatgtttgg aaacagtata atttgacaaa 300
gaaaaatgat acttctcttt ttttgctgtt ccaccaaata caattcaaatt gctttttgtt 360
ttattttttt accaattcca atttcaaaat gtctcaatgg tgctataata aataaacttc 420
aacactcttt atgataacaa aaaaaarawa wattctttga atcctagccc atctgcagag 480
caatgactgt gctcaccagt aaaagataac ctttctttct gaaatagtca aatacgaaat 540
tagaaaagcc ctccctattt taactacctc aactggtcag aaacacagat tgtattctat 600
gagtcccaga agatgaaaaa aattttatac gttgataaaa ct 642

```

<210> 78

<211> 519

<212> DNA

<213> Homo sapiens

<400> 78

```

gcagaagaag aagcggacct tccgcaagtt cacctaccgc ggcggtggacc tcgaccagct 60
gctggacatg tctacgagc agctgatgca gctgtacagt gcgcgccagc ggcgggcggt 120
gaaccggggc ctgcggcgga agcagcactc cctgctgaag cgctgcgca aggccaagaa 180
ggaggcgccg cccatggaga agcgggaagt ggtgaagacg cacctgcggg acatgatcat 240
cctacccgag atggtgggca gcatggtggg cgtctacaac ggcaagacct tcaaccaggt 300
ggagatcaag cccgagatga tcggccacta cctgggcgag ttctccatca cctacaagcc 360
cgtaaagcat ggccggcccc gcatcggggc caccactcc tcccgttca tccctctcaa 420
gtaatggctc agctaataaa aggcgcacat gactccaaaa aaaaaaaaaa aaggcgggcc 480
gccaccgcgg gggagctcca cttttgttcc ctttaatga 519

```

<210> 79

<211> 526

<212> DNA

<213> Homo sapiens

<400> 79

```

gtctggaggc ggtgtcctct ccgccctgtc gggtcctgga tgagtacgag ttatggtcac 60
ggtcacagcc tgatctctta tgtgttcata gccattcgct ctcccatcag aactgtttgt 120
cctgaatgtg ttctctagtt tctagaaaa gaccactaat ttaaaaaact cggttggtgag 180
gtttgcccag aggcacttgt tccagaattt cccctcctgc ttcagccatg tccttgtcac 240
ttggcattct aagctaaagc tttagcttcc caattcgtga tgtgctaggc caagattcgg 300
gagctgttgc cagcctcgtc aaatatggaa gagaaacaac ctgcggtcaa aaggagtgta 360
tttgtaagt ggtgcgcgtc tatctcataa ctagatgtac caaccaggga agggccaagg 420
atggaaaggg gtaacttttg tgcttccaaa gtagctaagc agaagtgggg gagcagttta 480
gccagatgat ctttgattag gcaaacattg agttttaaag aggctg 526

```

<210> 80

<211> 281

<212> DNA

<213> Homo sapiens

<400> 80

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gttatattag tgggtagtgt aacattttat ccaggttggg gtgaggggag atggccacag 60
tagcaagtgg tgacactaaa taccattttg aaggctgatg tgtatataca tcattactgt 120
ccgtagcaat gaaggataca gtactgtgtt gtgggtgagt gttgctattg cccagcatta 180
atatttgggt gtgtatgttt gaggctatga aacacgcagg agtgtttttg tgctattaat 240
tttaagagaa agcagctttt tcttaaaatt cactgttgag a 281

```

<210> 81



<213> Homo sapiens

<400> 84

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cccatcacca gaatcccttc atgggagggga tggatgcctg ttgaaactca ctgacctatt 60
ggactgacgc tgggggtggta tcttcatcag agctattgta agtcatccaa aaggcttctg 120
acgaaagaac aatTTTTTaaa aagtcctctct tttcaatcaa gccaatgtcc tattttatTT 180
ctaaaagttt tgggactcgt gctgttatca agtacaatga aaatggcttt ataaatagct 240
gttttgacat tgtgatagaa ggcttgaata cggaggaaag atgtcgtctg agctagtcct 300
gagttccgac tgtccctgtg gtgggaatcc agtctgggaa agcaggactg ttttagcaaa 360
cgtgtactcg ttctataaaa atggaatctg ttctgcaggt taccgtccct ccccgcccaa 420
gcatcccttc tgtcctgtct ctctgctgct gggaccagg gctttttcag ctgcagaacc 480
cactggactt ccaggaatca aggaaaaagt ggaaatgtcc aactgtg 527
```

<210> 85

<211> 401

<212> DNA

<213> Homo sapiens

<400> 85

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cagtgtggtg gaattcccaa gatagaaatg aaaaactctt ttatagagtg ctgacatctg 60
acattgagaa attcatgcct attgtttata ctcccactgt gggctctggct tgccaacaat 120
atagtttggt gtttcggaag ccaagaggtc tctttattac tatccacgat cgagggcata 180
ttgcttcagt tctcaatgca tggccagaag atgtcatcaa ggccattgtg gtgactgatg 240
gagagcgtat tcttggtctg ggagaccttg gctgtaatgg aatgggcata cctgtgggta 300
aattggctct atatacagct tgcggaggga tgaatcctca agaatgtctg cctgtcattc 360
tggatgtggg aaccgaaaat gaggagtac ttaaagatcc a 401
```

<210> 86

<211> 547

<212> DNA

<213> Homo sapiens

<400> 86

```
gaagcctctt gtgttttgtt gcagagaagt atatgatcca ccatgctaatt gacacttgcc 60
tttttttcca ccattaaggc ttttaagaaca tgtggaataa gtttttttagc tgctaatagac 120
aaaacaaatc ctgtaactac ccagccagca agtatatagc acagaacact gtgttacttt 180
acaagggtct atgtgactgg aataagggtg tcccacttga ctgttccaaa gagcagcttc 240
tcagatcttc agtgttctact ggtaaatttc taacagtgtg tttgtgtaaa gtttgtcatt 300
tcatactcca tacactacag ttgctgtcac tgatccctgt tttgctggct ttttaagctac 360
ttggtcaaaa atoctgcttc cttaaaacat agagaattaa tgagcatctc aagctttttc 420
ttttcctttt taatgatgcc tgcactatca agagtattct agtgttctct ctttgttttg 480
catataatca tgcaccaaac tttttatttc ttttaagggtg gagtatatatt ttatttccta 540
aatgcca 547
```

<210> 87

<211> 530

<212> DNA

<213> Homo sapiens

<400> 87

```
atggattcga aataccagkg tgtgaagctg aatgatggtc acttcatgcc tgtcctggga 60
tttggcacct atgcgcctgc agaggttcct aaaagtaaag ctctagaggc cgtcaaattg 120
gcaatagaag cggggttcca ccatattgat tctgcacatg tttacaataa tgaggagcag 180
gttggactgg ccatccgaag caagattgca gatggcagtg tgaagagaga agacatatc 240
```

```

tacacttcaa agctttggag caattcccat cgaccagagt tgggtccgacc agccttggaa 300
aggctactga aaaatcttca attggactat gttgacctct atcttattca ttttccagtg 360
tctgtaaagc caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac 420
acagtggatc tctgtgccac rtgggaggcc atggagaagt gtaaagatgc aggattggcc 480
aagtccatcg ggggtgtccaa cttcaaccac aggctgctgg agatgacatc 530

```

<210> 88

<211> 529

<212> DNA

<213> Homo sapiens

<400> 88

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acctgagcta agaaggataa ttgtcttttg gtaactaggt ctacaggttt acatttttct 60
gtgttacact caaggataaa ggcaaaatca attttgtaat ttgtttagaa gccagagttt 120
atcttttcta taagtttaca gcctttttct tatatataca gttattgcca cctttgtgaa 180
catggcaagg gactttttta caatttttat tttattttct agtaccagcc taggaattcg 240
gttagtactc atttgtattc actgtcactt tttctcatgt tctaattata aatgaccaa 300
atcaagattg ctcaaaaggg taaatgatag ccacagtatt gtcacctaaa atatgcataa 360
agtagaaatt cactgccttc cctcctgtgc catgaccttg ggcacaggga agttctggtg 420
tcatagatat cccgttttgt gaggtagagc tgtgcattaa acttgacatc gactggaacg 480
aagtatgagt gcaactcaaa tgtgttgaag atactgcagt catttttgt 529

```

<210> 89

<211> 547

<212> DNA

<213> Homo sapiens

<400> 89

```

gtttatatat atagcgaata aatctagttg tataaatttt taaatgccgt cagtagaaaag 60
cacacaagggt tatgattttt ttaattactg gcttctgatt tctttcactt ctgacacctt 120
tcctttttct cagatgtagc tgagtcttga tcattttaag acaacgatgg gtagaatttt 180
gagattaatg ttaattttcc ctttttggtt atttcagtc cctctcacta tgcttttgct 240
cagaaggatc aagaattcta ccatcccttg ggtctttgtg tataaacaat gttaaataaa 300
ggtagactca gtctttaaga tattagacag tttttttagt ccatgggatt gtaaataataa 360
acattaactt tcctataaga atattttggc tttgtaatct atagcctcaa attggtattt 420
attatggatt cactagacaa acagctgttt cttattgtc ttttttcttt agtgtttctg 480
atttgctatc agtagctgtt tttaaagcca tccaaggaaa ataattattt acagtttttg 540
aagtcac 547

```

<210> 90

<211> 528

<212> DNA

<213> Homo sapiens

<400> 90

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gagcagcaga agctgtacag caagatgatc gtggggaacc acaaggacag gagccgctcc 60
tgagcctgcc tcagctggc tggggccacc gtgcggggtg ccaacgggct cagagctgga 120
gttgccgcgc cgcgcccccac tgcgtgtgtc tttccagact ccagggtccc ccgggctgct 180
ctggatccca ggaactcggc tttcgccgag ccgcagcggg atccctgtgc acccggcgca 240
gectacctt ggtggtctaa acggatgctg ctgggtgttg cgaccagga cgagatgcct 300
tgtttctttt acaataagtt gttggaggaa tgccattaaa gtgaactccc cacctttgca 360
cgctgtgcgg gctgagtggg tggggagatg tggccatggt cttgtgctag agatggcggg 420
acaagagtct gttatgcaag cccgtgtgcc agggatgtgc tgggggcggc caccgctct 480
ccaggaaagg cacagctgag gcactgtggc tggcttcggc ctcaacat 528

```

<210> 91  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 91  
 atataaccatt taatacacatt acacttttctt atttaagaag atattgaatg caaaataaatt 60  
 gacatataga acttttacaaa catatgtcca aggactctaa attgagactc ttccacatgt 120  
 acaatctcat catcctgaag cctataatga agaaaaagat ctagaaactg agttgtggag 180  
 ctgactctaa tcaaattgtga tgattggaat taraccmttt ggscyttgra ccttymtwrg 240  
 raaaawgrmc cmaccttityt taacmtgrac cwccytmatc tctagaagct gggatggact 300  
 tactatyctk gttwatattt taaatackga aagggtgctat gcttctgtta ttattccaag 360  
 actggagata ggcagggcta aaaagggtatt attatttttc cttaaatgat ggtgctaata 420  
 ttcttcctat aaaattcctt aaaaataaag atgggttaat cactaccatt gtgaaaacat 480  
 aactgttaga cttcccgttt ctgaaagaaa gagcatcggt ccaatgcttg ttcactgttc 540  
 ctctgtc 547

<210> 92  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 393, 502  
 <223> n = A,T,C or G

<400> 92  
 gctggctagt aggggaacat gtagtagcca agcccatgca ttgcagtga cagagcaaca 60  
 ttggggtaac aggatgggta cctgtcacgg cctgtgcaaa cataacatgt gtcaccacac 120  
 tgaaggtagt gtggaacaag tggcctcacc aagggtcggac cccaatggac tttttgcctc 180  
 ttgggagctt atgggtctat gaggacacag tagcctttcc tatcagcaaa ctggagtggg 240  
 tgttgatatc gggggtggcc ttatgtacct gctactgttc tccccacatt gccagatgc 300  
 ctgtataact gggaggcact gkgctctcag tttttgcgaa tgtgatgagc cccctgggtg 360  
 ttctaccctt ttggcaatga ctatccctgg agncatgtgt caaaactgta aagcacaatt 420  
 tactgtctt tgcgagcac accgctcatg ctctgaatta cacctgaktg tccctcctcc 480  
 wgktawtgaa tgagggttgat cnvatcagaa adgtggkgtt ggcmata 527

<210> 93  
 <211> 531  
 <212> DNA  
 <213> Homo sapiens

<400> 93  
 ggtattcata cagccttccct aaaggcaatg ctttccacag gatttaagat accccagaaa 60  
 ggcacacctga taggcatcca gcaatcattc cggccaagat tccttggtgt ggctgaacaa 120  
 ttacacaatg aaggtttcaa gctgtttgcc acggaagcca catcagactg gctcaacgcc 180  
 aacaatgtcc ctgccacccc agtggcatgg ccgtctcaag aaggacagaa tcccagcctc 240  
 tcttccatca gaaaattgat tagagatggc agcattgacc tagtgattaa ccttcccaac 300  
 aacaacacta aatttgtcca tgataattat gtgattcgga ggacagctgt tgatagtggg 360  
 atccctctcc tactaattt tcaggtgacc aaactttttg ctgaagctgt gcagaaatct 420  
 cgcaaggtgg actccaagag tcttttccac tacaggcagt acagtgtgtg aaaagcagca 480  
 tagagatgca gacacccag cccattatt aaatcaacct gagccacatg t 531





<212> DNA  
<213> Homo sapiens

<400> 96  
ccagtgtggt ggaattcggg ttaattacaa aatttgatca cgatcatatt gtagtctctc 60  
aaagtgtctt agaaattgtc agtgggtttac atgaagtggc catgggtgtc tggagcaccc 120  
tgaaactgta tcaaagttgt acatatttcc aaacattttt aaaatgaaaa ggcaactctcg 180  
tgttctcttc actctgtgca ctttgcctgtt ggtgtgacaa ggcattttaa gatgtttctg 240  
gcatttttct tttatttgta aggtgggtgg aactatgggt attggctaga aatcctgagt 300  
tttcaactgt atatatctat agtttgtaaa aagaacaaaa caaccgagac aaacccttga 360  
tgctccttgc tcggcggtga ggctgtgggg aagatgcctt ttgggagagg ctgtagctca 420  
gggcgtgcac tgtgaggctg gacctgttga ctctgcaggg ggcatccatt tagcttcagg 480  
ttgtcttggt tctgtatata gtgacatagc attctgctgc catcttagct gtggacaaaag 540  
gggggtcagc tggcatgaga atattttt 568

<210> 97  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 97  
ttgtaccgta tctgtaggca tcctgtaaat aattccaagg ggaaaactaa acgaggacgt 60  
gggttgtatc ctgccagggt gagtggggct cacacgctag ggtgagatgt cagaaagcgc 120  
ttgtatttta aacaacccaa aagaattgta aggggtggct gctgccaggc ttgcaactgcc 180  
gttcctgggg gtgtgcatct tcgggaaagg tgggtggcgg gcgtccacta ggtttcctgt 240  
ccccgtctgc tccttcgcta agaaaatgaa atattctatg cctaatactc acacgcaaca 300  
tttcttgtag tttgtaagtc gtttgcgaga atgcagacca cctcactaaa ctgtaaacgg 360  
taaagagatt tttacttttg gtctccgtga gtgcacctc tactaagggt tacacaggaa 420  
ttccacctga agacttgtgt taaagttcta cagcgcgcac tgtaactga acgtcttttt 480  
cttcagccta tacgcggatc cttgttttga gctctcagaa tcactcagac aacattttgt 540  
aactgc 546

<210> 98  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 98  
tactgggtgc caagctatgt gccaggcact ttacatgtat tgatttaaca cttaacagcc 60  
actctatatt attccctttt tacagatgag gcaatttaag ctcaaagcat ttaagtagac 120  
aaccaacctt gaatcacata gcaaattgaca gaagccagag gcctccaag tctctctaac 180  
tccaaacctt atgcttactc tactatatca cactaccttg caataggaca aagggaatat 240  
gtggtaaact atgttcccag catctaaaag ccaggagtgg ttttcatttt tctttaagaa 300  
gatgatagtg tgatttgaaa catatctgaa tttcagaaga ggggactttt aaaaattgcc 360  
actcataagg aaagaaagaa ctttttcaca tatttttgaa agaaacgatg gtgagaagat 420  
attcttgata atagagatat gctaacattt gctttgggtg tttttagagt tagatttttt 480  
tgggtgtgtac tttataggct tgcatattgc ttactttaaa cagctgaagt tctaagtaag 540  
agtgttc 547

<210> 99  
<211> 122  
<212> DNA  
<213> Homo sapiens

<400> 99  
 cagcctttct gtcacatctt ccacagccca cccatccctt gagcacacta accacctcat 60  
 gcaggcccca cctgccaata gtaataaagc aatgtcactt ttttaaaaca aaaaaaaaaa 120  
 aa 122

<210> 100  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

<400> 100  
 ctgacggctt tgctgtccca gagccgccta aacgcaagaa aagtcgatgg gacagttaga 60  
 ggggatgtgc taaagcgtga aatcagttgt ccttaatttt tagaaagatt ttggtaacta 120  
 ggtgtctcag ggctgggttg ggggtccaaag tgtaaggacc ccctgccctt agtggagagc 180  
 tggagcttgg agacattacc ccttcacacg aaggaatttt cggatgtttt cttgggaagc 240  
 tgttttggtc cttggaagca gtgagagctg ggaagcttct tttggctcta ggtgagttgt 300  
 catgcgggta agttgaggtt atcttgggat aaagggtctt ctagggcaca aaactcactc 360  
 taggtttata ttgtatgtag cttatatattt ttactaaggt gtcaccttat aagcatctat 420  
 aaattgagtt ctttttctta gttgtatgg 449

<210> 101  
 <211> 131  
 <212> DNA  
 <213> Homo sapiens

<400> 101  
 ccattgtctc tcttgactac gcatatgtga gatttgcccc tccgccccgc tcgtgatagc 60  
 catccagatc ttttacctgg ccctgtcttg gagaatctgt tttcaatctc cactgattgc 120  
 ccccttgctg g 131

<210> 102  
 <211> 199  
 <212> DNA  
 <213> Homo sapiens

<400> 102  
 ctgctgcgcc tgatgctggg acagccccgc tcccagatgt aaagaacgcg acttccacaa 60  
 aactggattt tttatgtaca accctgaccg tgaccgtttg ctatattcct ttttctatga 120  
 aataatgtga atgataataa aacagctttg acttgaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa 199

<210> 103  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<400> 103  
 ttttttaggt ttttaaaactt tttatttgca tattaaaaaa attgtgcatt ccaataatta 60  
 aatcattttg aacaaaaaaaa aatggcactc tgattaaact gcattacagc ctgcaggaca 120  
 ccttgggcca gcttggtttt actctagatt tcaactgtctg cccaccccca cttctttcac 180  
 cccacttttt ccttcaccaa catgcaaagt ctttccttcc ctgccaccca gataatatag 240  
 acagatggga aaggcaggcg cggccttctg tgtcagtagt tctttgatgt gaaaggggca 300  
 gcacagtcac ttaaaactga t 321

<210> 104  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<400> 104  
 tttttttttt tttttatatt tttttttgca tcaaaaaact ttatttccat ttggcccaag 60  
 gcttggttagg atagttaaaa aagctgccta ttggctggag ggagaggctt aggcaaaaacc 120  
 cctattactt tgcaaggggc ccttcaaaaag tctctgggct tctatttcaa ccgcgatgat 180  
 gtggctctgg aaggcgtgag ccactttttc cgggaaactgg ccaaggaaaa gcccgagggc 240  
 tacaaccgtt tcttgaaaat gcaaaaccag cggggcgggc gcgctctttt ccaggacatc 300  
 aaaaagcca 309

<210> 105  
 <211> 591  
 <212> DNA  
 <213> Homo sapiens

<400> 105  
 cttattttctg catgggtcgg agagtgggcg ggactgcttt actgagttat agtgaatgta 60  
 gttttaacct aagcgctca catgactaac tctcatcca tcaagaatga gctcagctct 120  
 cacttcccc ctcctcacc ccctgtaaag taacctttct ccaaggttat gcttcaacag 180  
 gaatagctaa catttattaa attgtggcac gtaagtatct tggatatatt ggctcattga 240  
 atcctcacac ctactatttt acagagatgc cagtggggct tgagattgaa tcaactgccc 300  
 aggctccccc tgctggtaaa cagtagaggg ggctcctgac ccatcagtct ggcttgacaa 360  
 cccattccct caactgcgga tcccggattc cttatcacc ctgttgattt ctccataggc 420  
 tgtggtaaca tttgttgcat gaatggaccg ttgaaatagg gcctggcagg gagaaattca 480  
 ggaaatgaat gaatggttct tccctggcag cttttgatga cttacaagcc ctttcaaggg 540  
 ggaaagccat ttttctccct gggactcctt gaaagcccgg gagccctgcc t 591

<210> 106  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<400> 106  
 ctgccactcc tgccctctgct accccgaaac cggagaggga gctcaataat aacacaggtc 60  
 ccactaaact aattaagggtg ttggcataac ctgtcattga attcaagtgt ccaacaactg 120  
 tttgcttaaa atatcattag acctaataatt tttttcaaag gcacaaagtt taaacatggg 180  
 gggggcgggg gttgagaggg gtctgggata cccttaaacc caaaaaagtg atttgttccc 240  
 ccttgcccag aagggtgact gttccactgg gcctgtcacc acaggacatt ttccatgaca 300  
 agcactcacc ttcttgggga aggggcatca ggttggcaca ggaaaggccc aagtgagggg 360  
 ccactctgta cattaatact ttggtgatta atgtttgggg agaggcagga ttctcaccca 420  
 cctttttgac ttcaaact ctcactcaag 450

<210> 107  
 <211> 116  
 <212> DNA  
 <213> Homo sapiens

<400> 107  
 togacgaaag ttactgtcac tcagttgtaa atccatcagc ttttcacctg ttaaaaaattt 60  
 tgcaaaatat acatgttctc ctctgtttt caattcttcc atcttttttc ttgagg 116

<210> 108  
 <211> 291  
 <212> DNA  
 <213> Homo sapiens

<400> 108  
 ctgctcgaag ttgtcaaaac ccacgtgcag ggcaatggag agtccgatgg ccgaccacag 60  
 cgagtagcgt cctcccaccc aatcccagaa ctcgaaacatg ttttgagggg caattccaaa 120  
 ctcccttcaact ttgggttgtgt tagtagacag ggcaacaaag tgcttcgcca ctgcagtagg 180  
 atcccttggcc gcctggagaa accactcctt cgccgtctct gcattcgtga tgggtctcctg 240  
 ggtagtaaaag gtcttggagg caatgatgaa cagggaggac tcgggggttca g 291

<210> 109  
 <211> 662  
 <212> DNA  
 <213> Homo sapiens

<400> 109  
 gctgtttcca cagtacgcct gcctcacacc ttgcgatgcg ccaacatcac catcattgag 60  
 caccagaagt gtgagaacgc ctaccccggc aacatcacag acaccatggg gtgtgccagc 120  
 gtgcaggaag ggggcaagga ctcttgccag ggtgactccg ggggccctct ggtctgtaac 180  
 cagtctcttc aaggcattat ctcttggggc caggatccgt gtgcatcac ccgaaagcct 240  
 ggtgtctaca cgaaagtctg caaatatgtg gactggatcc aggagacgat gaagaacaat 300  
 tagactggac ccaccacca cagcccatca ccctccattt ccaacttggg tttgggttct 360  
 gttcactctg ttaataagaa accctaagcc aagaccctct acgaacattc tttgggcctc 420  
 ctggactaca ggagatgctg tcaacttaata atcaacctgg ggttcgaaat cagtgagacc 480  
 tggattcaaa ttctgccttg aaatattgtg actctgggaa tgacaacacc tggtttgttc 540  
 tctgttgtat ccccagcccc aaaagacagc tcttggaact tgccccgggg cgccccgctc 600  
 ggaaaggggg cgaaatttct tcaagaatat ttccatttcc acaaaacttg ggccgggggc 660  
 cc 662

<210> 110  
 <211> 323  
 <212> DNA  
 <213> Homo sapiens

<400> 110  
 tctgtgaaa cagcccatth tctacctac tgtgggttgc tgctcaggag gaacgatata 60  
 cgccaatata agcaggaaat ctgcagctcc tctgctatgt gcctcagaac actttcaatt 120  
 tttctgggtca atgctctgat taggtatcat acataaaagc cagcatatta gtttaaatct 180  
 ctaacaaaaa actatattht ccaaagtcac tatcatttgg gccaatataag tgatcttttc 240  
 gtgctttgtt gagcttcac tttagggcac ctcttcttct ttccatttca tgaagttcgg 300  
 catttccatg tgcaaattta cag 323

<210> 111  
 <211> 336  
 <212> DNA  
 <213> Homo sapiens

<400> 111  
 tccagtgcgc tccagcctta tctaggaaa gaggagtggg ttagaccgtg cagcaagatt 60  
 ggggcctccc ccatcccagc ttctccacca tcccagcaag tcaggatata agacagtcct 120  
 cccctgaccc tcccccttgg agatatcaat tctaaacag agccaaatac tctatatcta 180  
 tagtcacagc cctgtacagc atttttcata agttatatag taaatggtct gcatgatttg 240

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tgctttctagt gctctcattt ggaaatgagg caggcttctt ctatgaaatg taaagaaaga 300
aaccactttg tatattttgt aataccacct ctgtgg 336

```

```

<210> 112
<211> 218
<212> DNA
<213> Homo sapiens

```

```

<400> 112
tttttttttt tttttttttt tccagtcagg agtattttta atcaactgtct acagagacac 60
ctacatacac acacgggtgg ggaatgaacc caaagttttt aggtgaagtc tctcagggcc 120
caccctgtgc cacagacctt cctcgggtgc agagattctg ggcaaagcat ccgtgctctc 180
atgagattat cctgggggaga tttagaagaa tttgtgg 218

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<210> 113
<211> 533
<212> DNA
<213> Homo sapiens

```

```

<400> 113
ctgcaccgac agttgcgatg aaagttctaa tctcttcctt cctcctgttg ctgccactaa 60
tgctgatgtc catggtctct agcagcctga atccaggggt cgccagaggc cacagggacc 120
gaggccaggc ttctaggaga tggctccaga aaggcggcca agaattgtgag tgcaaagatt 180
ggttcctgag agccccgaga agaaaattca tgacagtgtc tgggctgcca aagaagcagt 240
gccccgtgta tcattttcaag ggcaatgtga agaaaacaag acaccaaagg caccacagaa 300
agccaaacaa gcatcccaga gcttgccagc aattttctca acaatgtcag ctaagaagct 360
ttgctctgcc tttgtaggag ctctgagcgc ccactcttcc aattaaacat tctcagccaa 420
gaagacagtg agcacaccta ccagacactc ttcttctccc acctactctt cccactgtac 480
ccacccttaa atcattccag tgctctcaaa aagcatgttt ttcaagatct aaa 533

```

```

<210> 114
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 43
<223> n = A,T,C or G

```

```

<400> 114
ccatatctgc tcggcgctac ttctttcttg gattgatect gantgatgca ttggcgatgc 60
ctttggagaa ggacatgtga tgtgatggtc ttcacgttcc acatgtactc gggcaaatag 120
ggggacaaac tgaagttaaa caggtcgaaa ctagaggagc tgctgaccct ggagctgacc 180
actttcttgg ggaaaaggac acatgaaggt gctttgcaaa agctgatgag caatctggac 240
accaacatag gacaacaacg t 261

```

```

<210> 115
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<400> 115
cctctcctgt gggttccaga ccctgttcca gcaacaattg ctgggacacc tgggcccact 60

```

```

gtccacctc gccaggccct ggcctctctc atctcagccc tgacagccac ccagtataa 120
acacagcagg ctctctaagc aatgtgacgc accagagggg tgggtgtaca cgttcccctt 180
gaagtcattc gaaaattaga gaacagattt gcctcatagc tgaagagaga ccctattcca 240
agcatgaatg gccttgacaa tgcttctt 267

```

```

<210> 116
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<400> 116
ctgatgacct ggggtctagt gaaaatgcag ggctcagattc agtgggtctg gggctctgaat 60
ctctaaggcg ctgccaagtg atgctgatgc tcctggcttg tggaccaccc tgtgtatagc 120
aaagctctag actaggaggt ctcaaccttg gctgcacaga attatctggg gagtttttaa 180
atttcccagt gcccaggctg cattcatatc atagtagaga cagggttttg ccatgctgg 239

```

```

<210> 117
<211> 168
<212> DNA
<213> Homo sapiens

```

```

<400> 117
aaaaaacttt tatattgctg catcttccac agttcttttg gtagtctctg aacttaaaat 60
ttgtaggagt ttagactac ctaaattttt aagttatgga tttgttcata ggtttagagg 120
gtaggtaaag aaggaaacag acaagaaaat ggcttcttga ggtggcag 168

```

```

<210> 118
<211> 150
<212> DNA
<213> Homo sapiens

```

```

<400> 118
aaaaaaaaaga gtttatttag aaagtatcat agtgtaaaca aacaaattgt accactttga 60
ttttcttgga atacaagact cgtgatgcaa agctgaagtg tgtgtacaag actcttgaca 120
gttgtgcttc tctaggaggt tgggtttttt 150

```

```

<210> 119
<211> 154
<212> DNA
<213> Homo sapiens

```

```

<400> 119
aaactgtgtg agatattaac cagccgcctt gttataaaat caggaaatcc aaacagcgat 60
ttacaccgat taacaccccc ttttatattt tttcaaatac actgagaaaa taatcaaacg 120
ttttcatctc tcttgtcttt tttgtttttt tcct 154

```

```

<210> 120
<211> 314
<212> DNA
<213> Homo sapiens

```

```

<400> 120
ctgcgtggag tgacgggagg agggaatcac tgtgtgtgcg agagtgtctc agactcaatt 60
tccaaaataa ttttcacccc tctaagcatg taaattcaaa gatggatcct tcatagaaat 120

```

```

taaaaaaatca atttgagctc atttcgaata cagaacaagt atggcacaga tggaagtcct 180
gccacgtttc ctttaaatgat gctgactctt gtatcacaca ggccagcatg aagttttotta 240
ctcagacttt acaggcattt tccgtaattc aatcagtcct gctcccagca caacacagga 300
ggtgattcga gaat                                     314

```

```

<210> 121
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 121
aaaaaaaaacc taattcattg aagtaataac caaataattt tcaatcttga ttcaactgtg 60
attcaaattc tacaccattt gccccttcta tgaatttatg tataaaaattt ttttaagagtc 120
agagtttttt tttcttgatt aattggatgt atttcacaga atttccaact gctcacgtta 180
gttttcttcc ttttagagtt gatctctcta atgtattaga tcttcatgcc tttgatagtc 240
tctctggaat aagtttgcag aaaaaacttc agcatgtgcc aggaacacaa cctcaccttg 300
atcagagtat tgtacaatca catttgacgt accaggaaat gcaaaggaag aacatcttaa 360
tatgtttatt cagaatcttc tgtgggaaaa gaatgtgaga aacaaggaca atcactgcat 420
ggaggtcata aggctgaagg gattgggtgc aatcaacgac aaatcacac aagtgattgt 480
ccagggtgtc catgagctct gtgatctgga ggagactcca gtgagctgga aggatgacac 540
tgagagaaca aatcgattgg tcctcattgg cagaaattta gataaggata tccttaaaca 600
g                                                    601

```

```

<210> 122
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<400> 122
ctgtttctaa ttgcttttgt gactgttacc ttttagttca tgcccccca aagagctaaa 60
tttcacattt ttacctacaa aattgatttt taattcctgc aaataattta ccattatgag 120
ctacaagggtg ggcaacagcg cctgaggatc taattttatg catattactc ccaagtattt 180
taacacttgt tggagaagca atatctggat caataaaaaca ctgtcccatc aaccatttga 240
gtggggagag ggagaagctc ttctgtaagt aagattctgg caagctcttt gaaatgagtc 300
ttctttccca cagattttct ctactctttc aatacaaaca gataggagaa gaggggaatag 360
aaacctggag gaacttgaat atttttgttc tagatagaga tacagttatt gaaaaggaaa 420
cctagaaagt agtcacacgt cgcttattta ggccagaagt aattgtactg ggcaaaaatt 480
tcactt                                           486

```

```

<210> 123
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<400> 123
ctggtgggtc ttttttctct ctcagagctc aagcctgtag tgcctgatgt catttctttc 60
aagttgccc cagtatctcc acttaaaacta ggctagtaac caaaaataatg tggaccttct 120
ttaggaaaca gtgtgggaga ataggagtcc agccgtaaga taaactggaa atatttgggc 180
gtcttgtacc tggctacgca ccacctcagt gttgttccta cataaacaag gccctttt 239

```

```

<210> 124
<211> 610
<212> DNA
<213> Homo sapiens

```

<220>  
 <221> misc\_feature  
 <222> 4, 12, 30, 73, 75  
 <223> n = A,T,C or G

<400> 124  
 ccancaagt cnttgatgat cactgaccen cgcgcgctg ctggaccaag gtggctgcgg 60  
 ggaaatcgcc acngngcttt cggttttctt ggtgaaggaa tacaccgcgc cgacagcagg 120  
 ttttcagtca gggtcaggga ctggtgcttg cgcgcgaaaa tcaccggtac gccgagggtc 180  
 aggccgggtca tgatcgccgg tgcaatgccc gaggcttcga tggtagcgat cttggtgatg 240  
 cccgaatcct tgaacaacgc agcgaattca tcaccgatca gtttcatcag cgccgggtcg 300  
 atctggtggt tcagaaaggc gtcgaccttg agtacctgat cggaaagcac gatgccttct 360  
 tcgcgaattt tcttgtgcag tgcttcacg aaagcttcct ctgttggcgc aacacgcgcc 420  
 gaaagtagat taaaaagtag tcgattctag cgctttaaca tcgcgcgtat atccgccagg 480  
 gcggtattgc cgcgaacggc tttgacttcg gttggtgtgt cgtcgttgcc ttcccatgcc 540  
 aggtcatccg gcggcagttc gtcaaggaac cggctggggg cacaatcaat gatctcgccg 600  
 tactgcttgc 610

<210> 125  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<400> 125  
 ctatagggct cgagcgggcg cccggggcagg taaaaaatca gcccctaatt totccatgtt 60  
 tacacttcaa tctgcaggct tcttaaagtg acagtatcct taacctgcca ccagtgtcca 120  
 cctccgggc cccgtcttgt aaaaagggga ggagaattag ccaaactg taagctttta 180  
 agaagaacaa agtttt 196

<210> 126  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

<400> 126  
 aaattagtta aaaaaatgca ttcctcattt gatatagcca cattccaaat gcttaaaagc 60  
 cgcatgtatc tagtgactac catactggag agtacaaata tagaacttta cccgtcactg 120  
 cagacagttc tgttggtattg tgcagcattg gacaatatat acagtttgcc tgtatatgag 180  
 aaagagagag agagagagag tgtgtgtgtg tgtgtgtgtg tgaagtgcaa taaggctgac 240  
 aggcac 247

<210> 127  
 <211> 590  
 <212> DNA  
 <213> Homo sapiens

<400> 127  
 cctccacggc atggcgcaat tgttgcttcag gggcgccag gttgctgccc atgccgatgt 60  
 agatacgttc cagtgctta ctgccagac gcactogaag cgtcgccagc gctacgtttg 120  
 cgcttgctgc cactgctgcg gcgacgcttt ttccggccat cgccggtggc ttgcctttg 180  
 ctgctgagct ctttgatcat ctgcgggcgc tggctgtcgt tggcgtcctg gtagtcggtc 240  
 caccactcgc caaggccgct ggtctgttcg ccggcgcttt cagcgagcag caggaaagtca 300  
 tagcccgga cggaagcgcg ggttgtccag caacaggtcg gcacgtttgc cgtcgccggc 360



```

tgccagggcgc tccctgcatgt cccagatttc acggatcggc atggtgaagc gtttcgggat 420
ggcgatgcgc tggcattgct cggcgatcag ctctgtagca gcttcctgca tggctggaat 480
tgccggcatg ccacgggtctt gcaggcgcat gacgcgtttc gaaagcgcgg gccacaacag 540
ggcggcaaaag aggaacgcgg gggtgaccgg tttgttctgc ttgatgcgca 590

```

```

<210> 128
<211> 361
<212> DNA
<213> Homo sapiens

```

```

<400> 128
ctgcccattgg aaaccctcca ggagctgctg gacctgcaca ggaccagtga gagggaggcc 60
attgaagtct tcatgaaaaa ctctttcaag gatgtaacca aagtttccag aaagaattgg 120
agactctact agatgcaaaa cagaatgaca tttgtaaagc gaacctggaa gcctcctcgg 180
attattgctc ggctttactt aaggatattt ttggtcccct agaagaagca gtgaagcagg 240
gaattttatt taagccagga ggccataatc tcttcattca gaaaacagaa gaactgaagg 300
caaagtacta tcgggagcct cggaaaggaa tacaggctga agaagttctg cagaaatatt 360
t 361

```

```

<210> 129
<211> 546
<212> DNA
<213> Homo sapiens

```

```

<400> 129
aaaaatacaa attcagtaag acttttgctc taacaacaat ttttcaaaac gaatcaacaa 60
caaaaaagta tccagtgttt cttttcttat gaagatataa taaaacacag tattggtaag 120
cacattttta cagtatgctt ttcttttgta gggaaaggag atatggctat gtctaacatc 180
gtgggatcca atgtgtttga tatgttgctc cttggattc catggtttat taaaactgca 240
ttataaatg gatcagctcc tgcagaagta aacagcagag gactaactta cataaccatc 300
tctctcaaca tttcaattat ttttcttttt ttagcagttc acttcaatgg ctggaaacta 360
gacagaaagt tgggaatagt ctgcctatta tcatacttgg ggcttgctac attatcagtt 420
ctatatgaac ttggaattat tggaaataat aaaataaggg gctgtggagg ttgatattat 480
taatagtgtt atgcagaaaa tatgaatggc agggaggggc agagagaaaa atccatttct 540
tcattt 546

```

```

<210> 130
<211> 733
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 611, 631, 668, 689
<223> n = A,T,C or G

```

```

<400> 130
ggggcctctt cctaaaggca ctaatcccat ccaatagggc ttaacctcat gacttaatca 60
actttcaaag acaccacatc ctaatgccat cacatcagaa tttaggcttc aacatatgaa 120
ttttgggggg acacaaacat tcacctcata gcattcattg tttcttgta ttggcaaaag 180
caagactcac attgtctaag ttatttgact tttgagtcgg cagatgtgaa aacagtgcta 240
aacagtccag cttcatgagt ggagaacagc atttgtgaca accaccaaag tacctctgtg 300
gtcagtgtcc tcaaccaggg cacagcatca tggaccagag cctctgcagg gcacagagga 360
gtggtgagga acagggggctc tggagcaacc ccacttcct ctgctttgta tatggggggg 420

```

```
tctgcacatg actgcatttg aaaagggcct cactgcgcct gctgaaggag tgcacttgag 480
ctagcggaga gttcccagag ggtgtctgga agaagcaaag gctattcttt gtttcaactca 540
gttatagatg gaagtcagac acttctgcct gaagtacttt cacacactcc acagtcttaa 600
gaaggatgga naaagcatgc caactactca naaaaccaca ggtgttcaag caatggatc 660
cttttatncc tacaactagt ggacaaagng gggcctctgt aatttgggaa agctaggaaa 720
actttttctg ggg 733
```

```
<210> 131
<211> 305
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 16, 19
<223> n = A,T,C or G
```

```
<400> 131
aaacacatac gaatanttna actgtgatta tgaagtgaca gccggctaaa tatgtcttgt 60
attttctctc ttcttttttt tgctaactca tcctttattc cattcctgct tccatggtaa 120
tgcaggctca aataaattac taggatacaa gattacttca agcctctttt ctgtggaact 180
cataatatga taagcatttg ttacaagatt gcctgtagtt gtttagggga caaattatat 240
tagggaaaga aagtctttct ttagttgggt aaattttcta ttataattgg gtactaaatt 300
tattt 305
```

```
<210> 132
<211> 545
<212> DNA
<213> Homo sapiens
```

```
<400> 132
aaacaatgct acactcattt ttggcaaagt gctgtattgt tcagtctgtg tacaaaaactg 60
accatctatg aaccaatcag tataaaaaat ttctataaaa acaaaattta gacagcggct 120
caagaaaaa agctgccatt tatgcataga ttgatgtaca gtaacctaac caaatgtccc 180
ttttgaattt tcaagttact gaaaaaaaaat gtgtcgagaa acacattaag aaggcacatg 240
tacagtctac aatactcttc agtctcccta actcatgcc tgccccctata aaggaaatat 300
gttcacaatt ttacttgaga aaaaaaaaaa aagccactta aaaaaaaaaa aacacacacg 360
caattattaa agttcaaaat ctctggagga aaatacaagc aaaaccactc atacactoca 420
agcctgaaac acacatctaa cctccccagg tactggtttg gttttcagag gtccacctag 480
aaaacaaatc taaaacttca ggcaaaacag agcaaaactg gacatttaac aattacacaa 540
ttttt 545
```

```
<210> 133
<211> 330
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 36, 68
<223> n = A,T,C or G
```

```
<400> 133
aatattttatt actaatatct tataatgttt tgtggnacca tggcatacct tgggtactat 60
```

```

tgtaacanat agttcaggaa accctactat aagggtttatc aaatgggtctc ataaacagtt 120
acttattcaa gcacgccaaa gctcagtgaa aagtattttt cacccttact ctttctcgtg 180
tcattcaaaag agaagttttg atgtagtgta tttatttgta gggagtaatg aacagatcca 240
tttcacagta gactttgtgc tctaggtgat gcagctaatt gccccagttt ggaaaacatg 300
gacttggatg aattgtcttt tgtttgggac                                     330

```

<210> 134

<211> 627

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 99

<223> n = A,T,C or G

<400> 134

```

aaatattact tcaaatacat tttaaagctc aacaaacttg tgttgaactg aattgcagat 60
cctgaactct atttgaaaat acatcatgaa acagaaaanc ccattccaaa tgaaaatgat 120
agtgccttgt tgggggtggg aatgaggcgg ggagactaaa tcaactattaa cagacttctt 180
ttccaatgc aatttgtcaa aagttcaaaa gttctgaaat gtactaaatc ttaagcaaat 240
taaattcatg atattactaa aactttttta atagtgaat gacttatcaa gttatagtgg 300
ctgcattaag aacaaattat tgtgtgaaat acctgtataa acacaaaata caattaaata 360
tttctttaca aaaagctgag cattacgcat aatagtggaa tgtctttcat taggtgtatt 420
ttttaaagat taacaaaagt aacatttcct aaaatgtata catgtgccat atttttgcaa 480
acatgcctga gaatgtattt aaaacatttc tgtagtaaga gtttgcaaga acttcacaaa 540
cctgcaaata aaatgcatct ttttaaaaag gtgaaaatgg catctccaca ctgcaacaat 600
tcaaaaagtg cagcatccct aatcttt                                     627

```

<210> 135

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 45

<223> n = A,T,C or G

<400> 135

```

aaaatcaa atattatttg ttaaaaaatca gcttgtttca ttacnggaaa ttacaccagt 60
ccgttctatt tactttcaaa ccatattcaa ctctcaact ttcaaacatg taatcaacta 120
atttcaaaag ggaaaaggta ccttttataa aggagagatc tgtaagaca ccaagaaatc 180
aaaattaata tcacttaata attaagtgga taacacatgc ctccaatac agtgcagtga 240
gaaacacaaa acatcaattc ccgcgtactc tgcggtg                                     277

```

<210> 136

<211> 486

<212> DNA

<213> Homo sapiens

<400> 136

```

aaaacagaat gaattcattg ttacagttac agaagtcaga agcccaaata cagtctgcct 60
gaaccaaagc cagggtcagc aagggttctt tccactgttt tgccaacttc tagaggccac 120

```

```

ctgtattcct tggttcatgg cccctctctt catcatcaaa taatcagcat agctttatga 180
cattggcagc tctgattttg ctctttttgcc ttctctttat gtagaccctt gtaattacat 240
tgggtacacc cagataaccc caaataatct ccctatctca agattcttaa tgtaattata 300
ttgggaaagt cccttttgtc atataagata acatagcaat ggattccaag gattagtatg 360
tgagtttctt ttgaggggct ataattaacc ctaccacaat atggaaatgt ctattgtttt 420
tctatgtacc agaaataaga cattaggatg tgaaattaat aacataacac cacttacggc 480
atcacc                                         486

```

```

<210> 137
<211> 552
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 310
<223> n = A,T,C or G

```

```

<400> 137
ccatcttgca tcaaattgttc ttaaggcagt gactggctat caaccacagt ttctgtctcc 60
ccagttgcaa acacaggatc catgcaacag ttctgagacc atacacttag aaaccacagg 120
ggatgcggat caaatgcaga actcccaaat tataaaacag tcaggctaca ctcaaaacaa 180
aacatagaac atcaacaaca cacatctccc aaaaaagaag tgcaacgcat gcttgtataa 240
accaacaata acaaaaaaac cacaataaaa aatgcagagt ctcccaaaca agttttcaaa 300
tgtattgcan aaagaaaaaa aatgtatata tatataaaat taaaaagtct gaaatactag 360
tgcatagtca attacctaac accaagtttc ttttctttct gtccaagctc tactgcccct 420
ctgatactag cagcatgtct acaggctaag accatagcag caaaaaacgt ttttcatttg 480
gcatttacaa aattaaatta ctgaataaaa atataatttt ttataaaaact atttcttaca 540
gtaataattt tt                                         552

```

```

<210> 138
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<400> 138
aaattttact agtgttactt aatgtatatt ctaaaaagag aatgcagtaa ctaatgcctt 60
aaatgtttga tctctgtttg tcattacttt ttcaaaatat ttttttctgt aaagtataat 120
atataaaact tcttgcttaa attgaatttc tatattagtg gttaattgca gtttattaaa 180
gggatcatta tcagtaatth catagcaact gttctagtgt tttgtgtttt t          231

```

```

<210> 139
<211> 535
<212> DNA
<213> Homo sapiens

```

```

<400> 139
cagttgccaa ccctctgaac cgttttaggcc ggttcatcgc tgcctttgaa tctgggccgg 60
tggtgatccg gcaaggggtg aaaccaaaga gcgggggctg tgaggccctt cgcagtcctt 120
cgtaagtgcg tgcgatggag tgaactatca cgcacgtgtt ttatttcgtc aacacgaaat 180
gtgatttatt tttgcgaatt aacacggcag ttctcgggta cgttttcgga aagcgtggga 240
tatgattctg tctatcctgt acggatatac agtaattacc gggaggggat tccatggcga 300
agaagcaggc ggcaccggca gcacggcagg aaatgagcgg tatggcgcg ctcgggcttc 360
gcgtctcatc gatgattaat caccgggtcg ccagacgca gcgctgggtt acgattcatc 420

```

```
gcctggacac ggatggggat cgggagtggg aagaggttct gagcgtgac gctgataccg 480
acgagctcga gctgacgctc aatgacgatg gcagtgtgac ggtgaggtgg gagca      535
```

```
<210> 140
<211> 640
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 557, 559, 591, 599
<223> n = A,T,C or G
```

```
<400> 140
acattggtgg cacttgaact gagtgcaaac cacaacattc ttcagattgt ggatgtgtgt 60
catgacgtag aaaaggatga aaaacttatt cgtctaattg aagagatcat gagtgagaag 120
gagaataaaa ccattgtttt tgtggaaacc aaaagaagat gtgatgagct taccagaaaa 180
atgaggagag atgggtggcc tgccatgggt atccatgggt acaagagtca acaagagcgt 240
gactgggttc taaatgaatt caaacatgga aaagctccta ttctgattgc tacagatgtg 300
gcctccagag ggctagggtta gtacaaactc gcattcatgg cttggtttcc cagaagatct 360
ccatttaact tttttaaaaga aagtttattg ctttctttaa cctgcatttt ttctaagttt 420
tttttcgcat aaaggtgctg tctttgtggc aaggcctagg catgacaatc ggaggactcg 480
aggggggatgg aggactagtg atccggctgg ctgcttccag tcgattagag aggtgaaaaa 540
gctgaacgtg tgcccantna atcttcaaaa aggcagaaaac atatcacctt ntgcccccnt 600
aaacttgttc tttttccgaa ggggaaaaaa aaaatggaaa      640
```

```
<210> 141
<211> 127
<212> DNA
<213> Homo sapiens
```

```
<400> 141
aaaaatcaca cactgacaac acagaaatac gaaatgctag gaaaagtcta gcatatgaag 60
gaaaaacatg tcttatgcac tctaataata ttttttcaat tagtataaag gcaaattgagg 120
ttttttt      127
```

```
<210> 142
<211> 126
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 18, 44, 46
<223> n = A,T,C or G
```

```
<400> 142
aaatatcctc tggatgcntt caagtaatac taatcatttc atgnngnaaaa gtctttttaat 60
aaacaaattc agagtaaaat taattgaaat atttataata catttggttac acagttattt 120
ccaata      126
```

```
<210> 143
<211> 730
<212> DNA
```

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 512, 555, 603, 608, 685, 721

<223> n = A,T,C or G

<400> 143

```

gcaagttctg gagtggtcac ttctgagcct gaattccctc ccctgcaaaa tgggggaata 60
ccctcctcag aggggtccctg cgagggtgag gggagatcag catggcaggt gtgctgggca 120
cggcagggcc tgggaagggc agatcccttc cccatccctg ccacaaacaa cccaaacctt 180
taaaggagag caatggcctt gtgtcaaaaa caaaaacaa acaaaacctt gtcctaggag 240
actggggccc taatttctaa tagcaagcct ttatgagtcc ctaacactct actgggctga 300
gtatctcaca cgccagagga taacctgcct tctgctcacc accacccctg agtagttgtc 360
attgtgtcca tttcacagat gaggcaaagg ctcagaagag tcatgtgtta aaccagcttc 420
tagagcccat gcaggagctg cagggtggga gaatcacctc taggtgctct tcccatggaa 480
tcctcacctt ccttgagtgg tcaactcactc anctttccaa tgggtgtgtg acctttgacc 540
agctttcttt ccttntctgg gcctcagttt cccaccttgg acaaagtaag aggtctcttg 600
ggnttcangg tagttcttcc taacttcttt tccttttcat ttgagcatcc ttcttcattt 660
tttgccacct ctcttgtcat tacangcttt taccttcggc cgcgaaaccac gcttaagggc 720
naaattttcca                                     730

```

<210> 144

<211> 485

<212> DNA

<213> Homo sapiens

<400> 144

```

ctggtcagaa atgattctct tgtgacacca tgcgcacaac aggtctgggt ctgtcctccc 60
catatgttac ctgaagatgg agctaccttt cctctgtgtg gcattttgtc gcttatccag 120
tcttctactc gtagggcata ccagcagatc ttggatgtgc tggatgaaaa tcacctgtgt 180
tgcggtggtg gtctgctgcc gccacttcta atcctcatca tgacaacgtc aggtatggca 240
tttcaaatat agatacaacc attgaaggaa cgtcagatga cctgactgtt gtagatgcag 300
cttactaag acgacagata atcaaaactaa atagacgtct gcaacttctg gaagaggaga 360
acaaagaacg tgctaaaaga gaaatgggtc tgtattcaat tactgtagct ttctggctgc 420
ttaatagctg gctctggttt cgccgctaga ggtaacatca gccctcaaaa atattgtctc 480
aacag                                             485

```

<210> 145

<211> 465

<212> DNA

<213> Homo sapiens

<400> 145

```

ccaagacagc tcgtttctgg agagtatgag ggtgtgtttt cttattgtga aaggaactac 60
cttctcttag agggtaggaa gaatgtggtg tgtgtgtgtc tcataaagca accggacatt 120
ataggtgccc aggtcatcta taaaaacgat ccttgggctg tgtaaaaatg aagtggcttt 180
tcagtatcct ctttcacact tgctgcttcg ggagactatg caatgatggg aaggtgattg 240
cccttttatt tcattcagtg ccatggctcc gtgtgtgtga gtaatttatt tgtttagttc 300
atTTTTTTTT tcttaacagt caaggggaag agtgattcct cacactgctt tcaagctgga 360
ctgagccagt ctcatctctg gaaagaaatg ctgtgtccag aactcagcag ctccatctat 420
tttttccagt cgaaagaaac tgatcttttag gcagttttta cttgg                                     465

```

<210> 146

<211> 351  
 <212> DNA  
 <213> Homo sapiens

<400> 146  
 ccagccgggg taatctgtat gtggcggaact tgagctacga cgtggggcggc aagtgcctgt 60  
 ttgaccagat cagcggcggtg aagcttatgc caactcatcg ttgataaat ccgaggatca 120  
 gttcaagacg tcgcagcggg tgattttggg aacgtcgttt tcggtcagta aattgtgggt 180  
 agcgacggag tggttgatcg gcaagaatga tccgtatatt ggccgggagca gctataccga 240  
 gagcctgggg gctgggggga gtaaccagtg ggagaatcag ttatatatga acattgggta 300  
 ctacttctga ctttaagatct ccagcggttt aactggcctt atcgcaggca a 351

<210> 147  
 <211> 654  
 <212> DNA  
 <213> Homo sapiens

<400> 147  
 acttattttt aattactgaa tatttcttag acgttttggg acagatttta tgtaatcttt 60  
 ataagtatga tttctgaaga aaagcaaatg cattagtatg ttgaccttaa acttgtagac 120  
 taaaccaagt attgtaaaat aaacagcgat aacagtata gtttttaact ctatgggtcat 180  
 tgtatcactc tggaaaatgt ggagtagctg taataaatct actcctgtat tatgctttac 240  
 agtgcaggtc ttagtttttc ttttttctca tttcttttga aatggcatct cgaacaaagt 300  
 ccaccaatcc ctttacaaaa gaatgaactg ctctctgtg tgtacttcat agaagggtgga 360  
 atcgacacaga ggcaggttag tgacagttat tcctgaaata caggagcaga gtacagtctg 420  
 ttgtgggttc ccgattccg cgcttagctc agccaattaa gcatgagaca taggccattg 480  
 agccacttag tagttatgcg agtggataga ttggtatgta agagggaaag aggtctgctg 540  
 taaagaacaa cacttgtttg tctgtgggga aagaaaagca gaatcttgag atgaaagttg 600  
 gcatacaaat aggatactat cgccagtagg ttatattaca aaacatttat cggg 654

<210> 148  
 <211> 539  
 <212> DNA  
 <213> Homo sapiens

<400> 148  
 tgaatatcat gaggggtgatt ttcacctgat tgcaaaactg ccatagtttg aaacactttt 60  
 tcaatttacc agacacactc tgtcaagact tcatatactt ccaacttgca agcctgtgtt 120  
 ttgccttctc caacctaaaa aggaaaagct ttaaacgatg aacttacatt ctattaaacc 180  
 atcagacttg agcttatcca tctgttttagc gtgaatgtac aaaccaggta catttocacc 240  
 aaacacatag aaaaatcttg tgcatacacag ttcagctaag ggtagtagga caatccttac 300  
 aatcctcctt ggatttcttt ttttaagatgt caaagaagca ggtaagcaac attgttcatt 360  
 tgttactggg tgttctagat caaaccttca caagctatat atatagcttc atatgctata 420  
 gcttacaat ggggtaacaa agtaaaagaa aagaacaaat tatactttga cactttatag 480  
 tcaaagtata attaaaaaag aaatcctaca gtgggtaatg gagaaataga taatttttc 539

<210> 149  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<400> 149  
 tttttgggtca ttctcctcaa ggagccgctg gatagtagtc ttgattgact tccaccttgc 60  
 cctcatata gtcgggtact aaggccaccg acatcccag gaacctccg aaccacgacc 120

```
<210> 150
<211> 200
<212> DNA
<213> Homo sapiens
```

```
<210> 151
<211> 515
<212> DNA
<213> Homo sapiens
```

```
<210> 152
<211> 243
<212> DNA
<213> Homo sapiens
```

```
<210> 153
<211> 620
<212> DNA
<213> Homo sapiens
```

```
<400> 153
ttgtcttctc taccttacca tagccagttg ctttcatttt aaaccagagc aagtaacata 60
ttagtgactt gaatcttcat aagttaaagt aaaaaacagc aaaaaaccta gatctttgtc 120
ttttagaaca cagaccattt tcaggaaagc agttagctaa gtgtttaatt catgaatatt 180
gtatactgca tcccttacca caattttacac aatcctgtgg atagtcttac ctacccctgg 240
tcaacctaca tgatccttaa gctaattggcg gatcacgatg accttgtaga catgcacaca 300
```



```

actatacctt tgtccaacag atcataatat atctgctatc caactggttt tacctgccta 360
atcctactga tttgggcact gcttgatatag tctctcaagt tcacaggaaa tgttgatttt 420
ctaaggtcct catTTTTtaca gagtatacag gcaaagtgac aggggaaaag gaattagtct 480
aagagtaagg ggatgattat tatattgagg ctaaaaccac aaagtggctc aggctttaaa 540
aaaaaacact gtggataatg acaaaaagca taagtataaa tattttgaga aaaataaagt 600
acaagttttg aacaccccc 620

```

<210> 154

<211> 843

<212> DNA

<213> Homo sapiens

<400> 154

```

cattgttagt gacccaagta aatttatagt ttttaagttc agaggaaaaa taaagcctat 60
tttttgttaa cagtcttaat aaataataaa atggaataaa gaaacaaaaa aaaaaagaaa 120
aagtttgtat gaaaattcat ccctatttct ttattttgga ctaagtagtc aaatttctac 180
tatattaata ttatgtaagc gacacccatt taaattcact ctctttgata gaaaggtgag 240
ttgattatca cacctgctat tttttcactg ccaaaragac tgcaataacc tccctccatc 300
accctcaaaa aacaaacaga aaccatctga ggcatagcc a ttgtttacat attgtgtttg 360
tgtgcaccta tctacaacgt tctttcttct aaggagttaa tctgccaata ttttcggctt 420
cagcagcagc gctcttcttg acagactaag agaaggatct acagaaaagt catctgatta 480
aggttttggg tcaaattaaa actctctgga cagaatcctc tttccttcac ttggatttct 540
gcaaacagaa agcagattat tctcctggca caatagcgac tctagaaaacg cttatgtttt 600
tcagactttg gcagaacttg ttaagaacag catcatcata atacatttgt acaaactcga 660
atttcagtggt ctcttttgtc ccacatgatg catgatgaaa tttataaagg tctgtttttac 720
ccccacaggg tcatttcttt tgtgttccta cagagccaat aggettcatt taagtccaag 780
ttatttatatt aaccatccct ttcactagac tagagaactt ctttttcatg gtccatatcg 840
tga 843

```

<210> 155

<211> 674

<212> DNA

<213> Homo sapiens

<400> 155

```

tttcgtgtca gccccaggtt tgctccagct attcacaagc agaataaac acaagaaaaa 60
caattcatat cccttaggga aaaaagagga tcaattcatc actcaatatt taatacagcc 120
aaaatgagct gccaaaacaa gcacacacac aaatactgtg aacagaaaaa tacaagaaaa 180
tgactaagct gggagtcttg acggggtatg gacattgctt aaagcactta tcagtcccca 240
gaaaaaccaa accaaaaaca ttttttacga tggcatggcc tcatggcccc ctttaaaact 300
gttgatggta acaaagggca gggggtgggg agagaaaaca caatcactgc tccctttttg 360
ctgcgccagt tgactgcacc cctcacggca cggcatgta cacaactacc acacaaggag 420
gaccaagtcc ctctgctggt ggctcctaa aaggcaaggc ttgagttttg gctgatgagc 480
aagttctctc cgttaccaat cctgccaac cagcactacc atggctgaat tgatctaccg 540
ttttcctgag taaactgtaa ctggctacag tttcggtaac atggaaaaga actcagctac 600
tacagccaac tgcaatactt caggaacccc ctccatccct ggggctcctc actcctagtg 660
catcttgatt ggat 674

```

<210> 156

<211> 671

<212> DNA

<213> Homo sapiens

<400> 156

```

ccttttagtga acacctttat ctccatgtcc ctcttagagc ccagagagct gcccataggc 60
attttccaga attcctcatg tcacctagtt caatttccat taactcagat cagccattgt 120
gattcaccat ttgtcaggct ctccaggttta acaaaaccta ctatcaccat catccttcaa 180
cagccacagt ctgaattgag ccaacatttt tttttctttg agaaagaagt gggctggggc 240
acaactttta gtctgagggg agctagtagt cggcttgaca attaaagcca tccataacaa 300
cttttcctca aatgtgttga ctctcaggg gctaaactgc tcttagctta gaattatgct 360
ttactagaga tctaccatat aagtgggtta atcactacca tctgttaact agttatatag 420
cttccagaca tgaggagac atcaaacagg gatggaagca accccaagga tatgcaagaa 480
gggcatgatg aacccccctc cctctggcag gagaacaagg ccaaccaagg gacagactgg 540
aaagcactta gatgtttaag gaggagaaa ggggaagctt gaccagtctt tgccttttgc 600
caagttcagc cagttctccg ctgcttgcaa cctctagcgc agtaacattt tgcagaattg 660
cagattttcc c

```

<210> 157

<211> 474

<212> DNA

<213> Homo sapiens

<400> 157

```

cgcgttcttt aattctttta gcctagaaaag tcctttacac tacttaccta aaggtcccaa 60
agtaaaacac acactagtag taaggctagt gcatttccct tctagcactc aaagaaagct 120
taacattttt gacagtttgc aaataccgcc ttgtatttct gattcagcct tattcaaagt 180
atcataataa aatattttatt aaatstatgt tgatctgcgt gcatttatga tctccagatt 240
aacgttaggc ttctctgttg ggccctaact tggaggtgct tttttggatc cctcctcccg 300
tgattcattg taatttcatt tcccttgctc tggctctgac cagagaagat tctaaatatc 360
tgcccccaaa gccaaaatta tatcttttga aaagtgaat gaagagttga gtcastaatt 420
tatttttagat attactgcct aaaacaattc cccaaaattt atggaagtgg gagg 474

```

<210> 158

<211> 584

<212> DNA

<213> Homo sapiens

<400> 158

```

ttggattctg cagttccaca tcattcactc cggcaaagga gagaacttgt aacaaagatg 60
agtgccaggt ttagtcaatt tacctacct ggaatactat atacaactct gggctctcatg 120
tgtgttaaaa tacatacagt gaagctgagg aagagccact gaagtaaaaa gtattgttta 180
caagttggaa aggatgtaaa aataatctaa agtatactaa gtcaggaata aaaggcagag 240
ttaataaaat tgtggctggg actgatagac gaaacagata tattttctaa atcctggaat 300
aattattaaa aaattttaca tgtatcaatg gattccagac tccatatttt aagtttcaca 360
actactgtca tttaaaacta taccttattg aacgtctccc actctcaata aattacccca 420
aatcactctt ctccaaaacg taaatttgga acacactgac ttacaaaatt tgggcttaat 480
ttataggatg ttgtggccct caaaaatatc attgtgggct aaacaaaata aattcttgaa 540
acaattctaa aaatcaatca ttgtccaaaa tgaacttttt ctaa 584

```

<210> 159

<211> 671

<212> DNA

<213> Homo sapiens

<400> 159

```

cctaatttta ttacttttct tgccactgct attattgata gaaatacaat taaataatta 60
agatgaacca atccattgga agattactaa aattgtatct tcccaatgcc tcctacagta 120
agatttcttt ataattataa cccttgga caatttgaac tttatttaaa tgttctgctc 180

```

```

aaatctaaat ttccttctcc taggctgaag cctgatctaa ataaggaagt agttgggata 240
tatccacagg ctgtcgaaca tggagctgca tctgagagac aggtggcagc aacccaaagc 300
aaagcaggga ctgagaacag gcaggttcca agagcaaaat ggaacttgaa agccaagtat 360
ggttcactgt aaaggagaaa atatagaaat acggaactag aacacctggt ctgggatgtg 420
gtaagcaccg aaaatatagg aaaactgtat gaattcttgt gaagcagtaa actatgatag 480
taatcatgtg acacatatga taacaaactc aaaacaggga aaagaggggc tttattcaat 540
gctggagata agtgaaaaaa aaagtgaagt gtctcaagga cagaagttat catctcaaaa 600
aggcatatca gctagatctc gcggaaacca tatgattatc ataattctag actctgttcg 660
gtattacaaa g 671

```

<210> 160

<211> 315

<212> DNA

<213> Homo sapiens

<400> 160

```

ccagagaggg agggctctgc ttcaccacag ggcaccagaa gaggactggt gcgcgggaag 60
accaggtaat cataatgcta ttaaaaatag cagtaatcat actgttttat acattgtata 120
atgtcataag gattttaact ttcattgtaac ataattgctg taaaagtctc cccagtttgt 180
tttgtctat ttacctggt gttaaaatgt gtaagaattt acattttagg tatgttaggt 240
ttattccttt ttatatggtt tctgtttgaa attttgattt tagaagacat tcattctcaa 300
ggtcataaaa cacac 315

```

<210> 161

<211> 607

<212> DNA

<213> Homo sapiens

<400> 161

```

tttytgtgtc accttgata attgcttaac ttttaaaatt tacgttccct catttccaaa 60
aagggttat aactcactgt tattttgata attgagataa atgtacgtac aagtgttttg 120
aaactgtaaa gtgcattata aacagaggga tttaccatag aggttctacc ttgatgtatc 180
aagagaagcc ttttctggaa tctgggtgcag cctgttgaga tgctgttagg taaggggact 240
ccttggtaga atttcttaca tttgtgtaaa aagtctggt tctgagtaa ttccaaagaa 300
gatgctatga ggagttcact gtgcctttga tttgatccca atgggtcaga atatgttttc 360
tcattcagta ggctactaca ggatttgaag tagaaaaaac aggttccagt gaccttcacg 420
ggatcctaga tgttcatgaa tttcaatcat ttgagattgt ggggtgtggt ccaatgctgc 480
tctcaaaaag atgttgctt tcttcasaga gcattaataa ctaaaaaatc ccttggtccc 540
aaatttattg tgtgtmtctg aaggctttaa ctgaagaaat gaaawgcaca ctcatggaac 600
aaactaa 607

```

<210> 162

<211> 443

<212> DNA

<213> Homo sapiens

<400> 162

```

tgagttttga aaaagtgaat aatcaaaagg aaaataattc cttgttggtc ataaattaag 60
catcactaaa gtctcttgaa aggcatttct gtattgggca agatttaaaa tactaaagcc 120
ttaggtccta ttcataatga aagtagcatg tttgtaacct gttactatgt ggagagagaa 180
gcagttgcct gccacaattg aagactacct ttcaaatagc aaaagagaga gagaaggctg 240
atatttcggg cttttaaata aagatttgtg tggttctgct tttactgtaa ctgtcacttt 300
cccagtgaat atgatttcat atacatttga gggctttaca sgtatgggta aagttctata 360
aattgcaaca aaatgatacc caatttcatt ttatcctttt tgtattgtga aactggaaac 420

```

tttatgacat tgtaaattat cag

443

<210> 163

<211> 686

<212> DNA

<213> Homo sapiens

<400> 163

```
caggcaaatt atagtcaa atcatcacccc cctcaggcat ctgtggcaag gcatccctct 60
agagaacaac taattgatta cttgatgctg aaagtggccc accagcctcc atatacacag 120
ccccattggt ctcctagaca aggccatgaa ctggcaaaac aagagattcg agtgagggtt 180
gaaaaggatc ccagaacttg gatttagcat atcagggtgt gtcgggggta gaggaacccc 240
attcagacct gatgatgat taagttagct ttgtatatc ttgaaacacc tataaagttt 300
tatttaccga ttgaataact aaatgtaagt gaaaatctaa tagatgttta tgtaaactta 360
ggtagacatc acctggattc cccactctat tgcttacctt tttgttttgt aatttgatca 420
gttcaagtta aaacaattta accaaaaact atgaatgttt atgatataat gaaatgattg 480
ttaactttct tattgctttt tcacacacct ataaaagtaa ttttattact cccaagagaa 540
atcactaaag gcagaattac tagaggtaaa aataactagg gttggtacag tattactcag 600
gagaagtcaa ggggagaaaa cttgtcccaa tgattcaaaa taattttggc atgggggggg 660
ggagggaaaa aaatttggct tccttt
```

<210> 164

<211> 706

<212> DNA

<213> Homo sapiens

<400> 164

```
tttttttgt ttcatttgct gcttaaaata aaaattataa attagattta aatggagcac 60
taattataaa acagattgca agtaccacca tttgaaaaaa aaaaaaaaaa tcagtggatt 120
tcataaacac agaaaatgca tggacatgca tctacagtag agttaaaaat ttcctgtgac 180
taaaaaatta aaaactggaa tcaccagtag caaatgtata gtcaatggct atgacaagaa 240
cagatcctgc cgagctcata aatgcaatta ttggcttttt tgctttataa aaaagacatt 300
acatatttta ttgcattatt ctctaataa aaaacatact accacgtagc tctccccatc 360
cccattcttt gcttccagat ttttatagaa aataactgtt ttagtctggc cttggaaagt 420
gaaccaccca gcaccacct cacctactca ctcttcaatt caatatgcac atagcaaaag 480
ccaacacttc aaatctcttg ccacatcaa aaaaagtagt ttcaggagaa aaacattaat 540
accagttgaa taaaaataag ggcataaaag ctatgagaga gatagctctg ccctctgtct 600
ctgggctaaa aatcaaggct aactattgcc tttggcacca caaggttcaa ggtccatggt 660
tttattagaa aagtcccccac aaaaaaatta aacccccctc acccca
```

<210> 165

<211> 427

<212> DNA

<213> Homo sapiens

<400> 165

```
tyywgggcaa ttaggcagga gaaggaaata aagggtattc aattaggaaa agagggaagtc 60
aaattgtccc tgtttgagga cgacatgatt gtatatctag aaaaccccat tgtctcagcc 120
caaaatctcc ttaagctgat aagcaacttc agcaamgtct caggatacaa aatcaatgta 180
caaaaatcac aagcattctt atacaccaat aacagacaaa cagagagcca aatcatgag 240
tgaactccca ttcacaactg cttcaaagag aataaaatac ctagggaatcc aacttacaag 300
ggatgtgaag gacctcttca aggagaacta caaaccactg ctcaaggaaa taaaagagga 360
tacaacaaaa tggaagaaca ttccatgctc atgggtagga agaatacaata tgggtgaaaat 420
ggaaaaa
```

<210> 166  
 <211> 124  
 <212> DNA  
 <213> Homo sapiens

<400> 166  
 accatgtttt cgttgtgtgt gagcagggaa gggaaactttc ctgccttatt taaacotggg 60  
 ccgaggattc gtggaatctg cttgatcaga gactctgagg ccaaaaacgc atcatacttc 120  
 ttgg 124

<210> 167  
 <211> 232  
 <212> DNA  
 <213> Homo sapiens

<400> 167  
 tctgcatagc aaatatgatt taagaattta acatcattat ttgatcacia gcgtaaatat 60  
 gtcaccataa ataaatgtaa attcattgta caaaaattcc caacaactct taatacaaat 120  
 atggtacatt tgacagtffc tgaaacagat tattttttaa acttttttaa acctaagctt 180  
 tatttttttc ctggttatta gacacacaca aaaaaataa aaagaggctg gg 232

<210> 168  
 <211> 677  
 <212> DNA  
 <213> Homo sapiens

<400> 168  
 tttcacaatt aaccaacatg caaaaattct cagactaaac actgagaaat tcttcataca 60  
 atgcatttgc caccttattg ctttttttaa atctttattc tatagtgaat tgggtattccc 120  
 aatctgccta agcaaaggca tgcccttcta acaagatttg cttagagcag aggtgataga 180  
 aggaagaatc cgaagaccct ctggcatggc aatctgggag cagcacattg ttgatggagt 240  
 ccaagtgcgc acatttcaca caattcattt agtgacaagt gggcttgctc ccttttcata 300  
 caggaaaaaa actactcaca gaccactgcc cagaatctgg aataagaacc ctcattttta 360  
 ggtattcttc ccaacaaata aatatctaaa tattgaaagg gggcatatca gaaaacttaa 420  
 aagacacaat aaccaaaaacc aaaaccctct tcaaaaacaag taagcaatgt ctgtatttag 480  
 ttcactctaa aacattctta gcttttcttg cagtttgctc ctaaaagatt tgattgggca 540  
 caagaggaac gaaattatta ataaaataaa agcttatttt tgtttttgct gtggataatc 600  
 ggtacaaaac gtttcagat ctgagactta aatggatctt ttaaggtgaa aaggagaatg 660  
 ccaggttcta ctgaaat 677

<210> 169  
 <211> 635  
 <212> DNA  
 <213> Homo sapiens

<400> 169  
 ttaagaagac tgggcattta tactctctct tgctagtcag cctggagcaa gcttggagca 60  
 gacgcacatt tttgtactgg cacatattct tagacgacca attatagttt atggagtaaa 120  
 atattacaag agtttccggg gagaaacttt aggatatact cggtttcaag gtgtttatct 180  
 gcctttgttg tgggaacaga gtttttgttg gaaaagtccg attgctctgg gttatacgag 240  
 gggccacttc tctgcttttg ttgccatgga aaatgatggc tatggcaacc gaggtgctgg 300  
 tgctaattct aataccgatg atgatgtcac catcacattt ttgcctctgg ttgacagtga 360  
 aaggaagcta ctccatgtgc acttcctttc tgctcaggag ctaggtaatg aggaacagca 420

```
<210> 170
<211> 533
<212> DNA
<213> Homo sapiens
```

```
<210> 171
<211> 568
<212> DNA
<213> Homo sapiens
```

```
<210> 172
<211> 167
<212> DNA
<213> Homo sapiens
```

```
<210> 173
<211> 391
<212> DNA
<213> Homo sapiens
```

```

cctcccaaag tgctgggatt acaggcatga mcmcmcmcg cctgatgata gacacgtttt 60
taactttctaa aaatatatga tcatgattgt gtctgtggag acttgacat atactaaatt 120
ttaamcaatt agagatatatt gttcattacc acattttggg agtcattatt tcctctatga 180
agagagaaaag gaatttgata caagttcaca ggggcttcca gtagattgag acttttattt 240
ctagctgagc tgctgatgta tgaatttttt ttgktattat gactttcata tgtattaaaa 300
ataaaatgaa aaaacaaggg attaggtgag gaacctatac gtctctaata tgcaaaatac 360
cacagaaata atgactgktg ggaaaattag g                                     391

```

<210> 174

<211> 474

<212> DNA

<213> Homo sapiens

<400> 174

```

gaactcagag agaggattgt cacccttggc atctgagctg acactataag gacaatgagg 60
agtctccttg gggatagatg gggagatgga aggacgatgc ctgtcctacg ggggtcttga 120
aggttaggga tacacactgt gagctgccac aggcacaaca gtacggatag ggggtgctgg 180
aaccagccag ggctctgata accaagctat gtgccccatg cagaggaagg ggtagtggca 240
cactgaacca cccagccaca aggctatctc cccatacagg gcacctttaa aaaaattatc 300
cttacagggg aagacgggga ggaaggatga actgtgtgcg gtgatgttgc agtgagtgtg 360
agtttgtgtc cgtccgcttg tatgagggcc taccttttac taactagccc ccaactttca 420
ttatctcccc ttttctgtc tacccttctg ccttttttaa gtggcttgca atcc 474

```

<210> 175

<211> 655

<212> DNA

<213> Homo sapiens

<400> 175

```

ccttgccagg gtgggggatgt gtgggcttgt tcactgttac agcccatgta tacctgaagg 60
gcaacatgta cccacaaatg ttccaggagg taaataaaaa atacaattca gcctcttcta 120
aaccatcctt gttgatattc ctgctacttc cgaaagttaa ttcgttattt ggactccata 180
atttttctta ttaattcacc ctatgtccaa ctccaacagt gaaaaaaatt tatttaattc 240
ttgcaataag cctataggca ggcagcatta tcctcagtct gcagataagc taaggctcag 300
agaagcttgt atactgtcac ttaggtagta attgcaagag ctggcattca gaccagact 360
gtgggactcc tcactccatt ctctttcccc ccactaggct gtcctttaa atacaatgga 420
tgcttgatga acgcttgtgg gaatcctggg tggacacagt tccttttcgg ccaaagcac 480
cttgacgact tgtgaagaat taatctggaa aacttaacct atttataaaa acgtgttatt 540
aagggcaggt tattcccacc ccctttacca aagaaacccg ccctgacctt ttttactgg 600
gggttggtct tgggcatttt caacaagggg ggaacagttt aaaaattccc cctt 655

```

<210> 176

<211> 660

<212> DNA

<213> Homo sapiens

<400> 176

```

cctgggtcaaa gtgggcatta ccattcaagc attactagac atcaccgtaa cgaaggctct 60
gttcacatga aactaccctt tctccattgg gggctcagac totgtctctca tccaggatcc 120
tgaactctgc tccaggcacc tgttcaacct tctctcccac ccactgcctg tcacttcaact 180
gactccagtt acattgaaac aattttcagt ctaagggagg attttctacc tttcagagct 240
gacctccgac tttaagactt gacaggtatt tatcttgaaa ccagagaggg agctggagga 300
aaaaaaaaact gagcaagcac atcaatgcct ttccaccct tcttcacctt tccacactc 360
accgactgcc attaccaaaa cgccaagcac aaccggtttg gaacaagacg cattccgttt 420

```

```

taattaaaaac caactcatta tgtatTTTTag tgggggggaa ggggggcaca atcaggggtt 480
tcaccaccaa attttccaca cggtttctga acaccattgc cttttaaaaa actatTTTTc 540
cacctccaaa atatttattt aaattttatt tattacggag gtgggtattct tcctttggga 600
gccaaattgg gaaatttagg gaacctttt tattaccggg ttttttgggc gggtaaacc 660

```

```

<210> 177
<211> 459
<212> DNA
<213> Homo sapiens

```

```

<400> 177
ctttttctct tcctctgtgg aatggtgaaa gagagatgcc gtgktttgaa gagtaagatg 60
atgaaatgaw tttttaattc aagaamcatt cagaamcata ggaattaaaa cttagagaaa 120
tgatctaatt tccctgttca cacaaacttt actctttaat ctgatgattg gatattttat 180
tttagtgaaa catcatcttg ttagctaact ttaaaaaatg gatgtagaat gattaaaggt 240
tgggtatgatt tttttttaat gtatcagytt gaacctagaa tattgaatta aaatgctgkc 300
tcagtatttt aaaagcaaaa aagggaatgg aggaaaattg catcttagac cttttttata 360
tgcagtgtac aatttgctgg gctagaaatg agataaagat tattttattt tgktcatgyc 420
ttgkactttt ctattaaaat ctttttacga aaaaaaaaaa 459

```

```

<210> 178
<211> 720
<212> DNA
<213> Homo sapiens

```

```

<400> 178
ctgcaagctc ccactccttc cttttatctt aacgccagg ctgacttcta agctgctttt 60
cactttccta cctccactgc attttcgccc ctgataattt ttgtaagctt acctaaagct 120
cccttctttt gagatcccct tcttaaaagg gtccattcta ttaaccctac cccatatcca 180
gttactttta ctacctgtcg atctatcgct acctgtcca attcatggga attacaggg 240
gcaactgggac aagagttaaaa tgatccaaca aacataatgt tgcattttaa aaaataagct 300
aaaagatact gatgactttt tataactaca acatattcgt ttgtgaataa gaacatatat 360
agtaaaaaga tgaaaatgtg aacagggttg ctatttccta aatttatggc agaaggttgt 420
tctggagagg atgggaagaa aaaatgaagg ctggcagtga tgggtgggga aatgcaacct 480
ccaaaattat ctatctatat atttttatta aaaacaccca cagtaattat ggcaaagtgt 540
aatggtttgt ttgttctaag gttttggata catttaagat ctcttgcttt ctgggtacca 600
tttcttttct tttcttttct ttttttttca aattaattcc aaaagactta tatctgctac 660
atgaagaacg aagcaagttc agctctcttg gctgaaatgt tcaaatgctt gagggcaagg 720

```

```

<210> 179
<211> 427
<212> DNA
<213> Homo sapiens

```

```

<400> 179
ctgtgaatct gtctggttct gaacttattt tttagttatt ggcaatcttt gtattactat 60
ttcaatctct tcctggttta atctaggagg gttgtatatt tccaggaatt tatccatctc 120
ttgtaagttt tctagtttat gcacataaac gtgttcatag tagccttgaa taatcttttg 180
tatttctgtg atatcagttg taatatctcc catttcattt ctaattgagc ttatttgaaa 240
cttctctctt cttggttaat cttgctaatt gtctatcagt tttatttatc ttttcaaaga 300
accagctttt tgtttcattt atcttttgta ttgttttgtt ttgtctcaat ttcatttagt 360
tctgctctga tcttcgttat ttcttttctt ctcttggtt tgggtttaga ttgttcttgg 420

```



tttctct

427

&lt;210&gt; 180

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 180

```

caaacacaaa agtcactgtg tgtgtgatgc ttctccaatt ccactcatcc tggctgccat 60
tcatgcacta gtgcatgtat gcatttttac attttttaaa ttacaaaaat caacctatta 120
taactgctta gatatatatg aagtaaaaaat gaaagtctc cctttacatg acccatcccc 180
catcatttcc ctctttatct tatactgtca gcattcccag cttgtagcac agtgtctggc 240
aatagtaaat cctcaaaaaa tgatcaatga ataatttaat aatgattaat aaataaatta 300
atgatgatgg tgaagataaa ttttagcatt tattgaacgc taactacaaa ccagggagtg 360
tggtaaatat tttataaaaa tcaatgaatg agctaaaaatg ccattctatt attttttttg 420
ataggtttta atatttttact cataaatatg cttaaagaat attataatta tatgacttag 480
aatggtaaaa caatatgtac agcagtatcc tatttttttag aataaaaaata taaatatgtg 540
ctcacatatg tggttggggc atgcctagaa acccgattag aacgggattt tttcttacca 600
ccattttttt tacctgggaa aaatatggga aaattttatt tcccttcttt ttggttctaa 660
aattttatata caggagccta tttggctttg gataaatcat tttaaaaaag gtggttttaa 720
aaaaaaaaa                                     728

```

&lt;210&gt; 181

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 181

```

acaatccttt ggaagacact actgggcttt ggggtgctgct ttttaataat tgagttattt 60
tgagcttgcc aagtaggatc tattgcctgg actaaaattt atttcctaatt cttctgatga 120
ccaagaaagg aaaaatttaag tttgcagatg ggagatgaaa tatagccagc gaatatgcat 180
actggttctg aatgaaagga attaactttt cagtcaagaa acagtctgca tgccgtaaat 240
tgaatttttc ctgcaactgg aatgattggg taattctttt tgaacactgg cctttctccc 300
caagaacact aatgaattgc taatattttt taaagaaaac tggtttttta attaggtaag 360
ctccacttcc tcttattttt taatccctaa agaaaactgt taaaagggaa tggatctatc 420
acgccttttc ttttaaaacc acctttttaa aaaaggattt ttccaacccc caatttgctc 480
ttatttttaa attttgaacg ccaaagaag ggaaataaaa atttttccct taattttacc 540
ccctta                                     546

```

&lt;210&gt; 182

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 182

```

ggccactctg actgggtctg ctaattcaca tgctctttgt gacatacggc tctaagaggc 60
agaggctgga agagaagtat gtgggttgtg ggatcaagat acccaagtgt cagtcttgac 120
actgctatta cttagtcagg tgaccactgt aacttcatct tgattgagcc tcagatgtct 180
cacotgcaaa atggagtttg aaatttgcta tggttgggtg tcacacggat taaatgaaat 240
aatgcctgtt aagcgcttat ccagcactta ataagatggc cactgcatca taatgctttg 300
ggcacaagta acacaacatc caaccctaaagg ggg                                     333

```

&lt;210&gt; 183

&lt;211&gt; 393

<212> DNA  
<213> Homo sapiens

<400> 183  
ctgaatttct tgggctttat gtggcagtgt ggtaaaaata tatgatcaga tttcactgtt 60  
aagaaaattc tttcagcaat acatgtagag tcaagtttct tgcattggata actgaacatg 120  
tgggttatga gatttttaaaa aatgtctcgt gacaaaacttt acggaaatgc aacaatctgg 180  
acatctagtt ttgtctgaga gtggcgtgga tatgaagaac tgtgctgttg gtgctgatgc 240  
cacactaagt tttggcagtc aactcttgg ttcttcatat ttgaggagat gggatgggtga 300  
ggaggcctgt tggctttatt ttattacgtg ccaccatcta gaatacagat tcttgatat 360  
ttcatcttca caaagggtgaa gctgcaaact cag 393

<210> 184  
<211> 700  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 74, 503, 629, 656  
<223> n = A,T,C or G

<400> 184  
ccaggscawt gaggaaaagr gaaagaatwt arrggstwt caaataggaa aaraggaagt 60  
ccaaattggt ccntgtttkg ccagataacc atgattgkkg atttagaaam ccccatgwtg 120  
tcagcccaaa atctccttaa gctgattaag camcttcagt aaaktctcag gataaaaaat 180  
caatgtgcaa aawtcacaag crtccctatm cgamcaatam cagmcaaaca gagccaawtc 240  
atgagtgrac tcttattcac aattgctagt aagagaagaa aatmcctagg aatacaactt 300  
mcaagggatg tgaaggwtct cttcaaagaa gaactacaar ccrcgtgctca aggaaataag 360  
agaggmcmca agtaaatggg aaaagcattc tatgctcatg gataggaaga atcaatcccg 420  
tgaaaatggk gatactgccc aaaataatct atagattcaa tgctatcccc atcaagctac 480  
cattgacttt cttcmcgaa ttnggaaaaa tctactttac acttyatagg graccaaaaa 540  
agaagcccw ttagccaaga caatcctagg caaaaaagac caamcctgga ggcatcacag 600  
tmcytgactt cmaactatwc taccaaggny tmcrgkgmcc aaaacagcac ggkacntggg 660  
mccaaaccrg acwtwtwgac cmmcagacac agaacmgagg 700

<210> 185  
<211> 192  
<212> DNA  
<213> Homo sapiens

<400> 185  
ccagyccttc ttttaagtaa gcgctttttc aagctcattg tagctacaaa gtcaataaat 60  
tggtctttgt tatttttacc tgaaaaggct gttaaagggt aaaatgacaa actcaaattc 120  
aaagggattg gaggatttgg tgtttatgat ttctcagaac aacaatctag agaccaccag 180  
ggtgggtttc ag 192

<210> 186  
<211> 688  
<212> DNA  
<213> Homo sapiens

<400> 186  
gtgctggaat tcgcccttag cgtggctcgc gccgagggtg gatattttct ctggatagat 60

```

ttcagatagg tagttccctc aaataagatt atatggggtt gcattttcaa ggcagagttg 120
tatacttcct gctctttatt taaataaaaa aacttgaaaa tctgttctgc ccagtattgt 180
aagcgctcag gtacaaatat gaatgaaaca atctctgcct aagtaacaca agtataggga 240
caagattctc agtaaaattc tcacgtgaaa tttgtaaactc actagacact atcaggagat 300
caataattat gtaattaaaa aaaataatta cctgccaaac tgggttcttc tttggcactt 360
ctgcttggtt ttaagacaat tctcacatag aagcttatta ttccccatta gtcattccat 420
agatgtaaaa ctggtagaaa caggacttga attgaacatt ctttacaagt aagttatata 480
gcttctgaaa aaagggtctg aaaaagcatt tttggggact ataagaacct tcaaatgctt 540
tcccctctta acaaacctta aaattatctt gaaaataatt taagggggct gatcttctct 600
tgtcaaaatc ttgaacccca cttaccaggt ggttggtcaa accaaagttc aaaaaaagc 660
ttctggcctt tcctttatcc cacttgca 688

```

<210> 187

<211> 779

<212> DNA

<213> Homo sapiens

<400> 187

```

gcaaaaaaca gatacatctt cagtgtttta aatgaacaa gtatggaaag gcttatacag 60
taactgaaaa gtctcctttg ggaagccaag gtgggaggat tgcttgaggt caggagttca 120
agaccagccc aagcaacatg gcgagacccc atctctacaa aaaattaaaa aatcagccag 180
gcatggcgga catacttgta gtagtaacta catgggaggc tgaggcgagg ggatcacttg 240
agtccgagag tttgaggctg cagtgaagcg caacgcgccc tgtactccag cctgggcaac 300
agagcaagat gctgctctaa aagaaatttt cttttaaaga aaaaagtctc cctcatagcc 360
tgttctacaa aagtcctatt tcttcccaca aaaagcctct ggtacctggt gttagttctt 420
ggggtggaag attactttta aaaatagaac tattttttta gtatatcttt tagggaaactt 480
tagttcccga agcttttaga aatgggatct tgaaaacaaa agggatttca atacctatga 540
caatgcttaa agaattattg gggcatttat ttttcaatgg agggccaca aatctttgga 600
aacccttggc caattaccag aagccacttt aatttttgac cgaaaatggt tttaaaaatt 660
ggcttttgga aaaactgtct ctttcccaaa aatgaaaac cttgaaaaaa aggggaattt 720
ttaaggttgc cccctcatta aattttaacc cctctgaaag aaaaccctct tgtgacagg 779

```

<210> 188

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 307

<223> n = A,T,C or G

<400> 188

```

ggcgamgtct ggycaccatc atgcccttta atcaactcac acctgtttta agagtgtttc 60
tgatttgacc ttcattccctt agtttactgg cgttaaaaaa agtctcagca attttcatta 120
tttctgttgg gtctcattat caaaccttta cttatttcgg catatttcct ctgggcttct 180
tctagtcttc gccttacaag caatgctgtt ctgtaaatct attgaaacct ctggaacatt 240
tcacctttag agatggagga tggaaggatt ggyaccagaa gagggctaag atacgttytc 300
tgtcttngag ctgaaagcac agyctactct ccttcgtttt gycgatgaga aaagttgagg 360
ccagaaggga ggtgacatgt ttagagtcac ccag 394

```

<210> 189

<211> 681

<212> DNA

<213> Homo sapiens

<400> 189

```

aagttctgac tttggtctat aaaacagggt tattggctgt ggctgcactc aatatctaaa 60
aagttattag gaagtgcctc gttattgtca ttaaagatat ctaaatatgg tagaccaaaag 120
gttggttgaga aacacatatt atggactgag ttctgtttct tctgctgtgg cgcacctaaag 180
ctcaagcctt ctttctctcc ctcccccttct ggccggcatg gtatctgagc tcacagacag 240
acaaggcatg ttagaatcat cagatcatga gcaccgtgct gggatttagc cctctccaaa 300
gtcaattctt acagtccata ctttgcttaa atcctcagtt gttgaggtct gctctgctgt 360
cagtaatccc agctataaat ttcccccaaa tgtggggcct agataaagta gaagggtgat 420
ggactcagct tattttcatg ggatgacagg aactggaaag agaaagggca ttgaaaataa 480
aaagttattc cagaatagca ttaaccctct tactgttcaa gaattaagaa agcctactta 540
gaaatgaggg ccttgagaat gatcccaaaa tattggtctt tctacaaaaa aatggccttt 600
ccaaatatct gctttcctgt tcccattg gctttttaag tagaattaag ttacctaaaa 660
ctttacctga aggggtggtt t                                     681

```

<210> 190

<211> 839

<212> DNA

<213> Homo sapiens

<400> 190

```

caaatacatg atttccattg gcatagactc ttctatagtc tctcaggcac accttatgac 60
taataagaac actgtcttct agatataagc caagttttag gagttatctt tgtagtttct 120
gtgttgagac tatgggtctt ccctgtgcaa agacttgatt agcaaatact atttgaaaacg 180
atcccaaat catagtgcag ttgaccaccc ttctgatcaa ggggatctct gtatatccca 240
tgaaagcttc ataggtctca ccctagatta agtgcttcac ttctcaagac agtgaacaga 300
tggaagactt ttgtagttat cattatacaa ctgtgccctg tgtgttttat tatacaacca 360
gagaactgag gcactggctt tacctgtcag ctacgccagg ggtgtgacgt catctttctg 420
acttgatcac acatgccaca ttgcttaata ttccaagctt agactgaaat aatcctgtgg 480
taaaaaattt ttggggggct ggggaggtaa agaacaaggg ggggaacttt ggaatatttt 540
tattcattaa tcatatttcc cgaattgtat tttattttga aatgaccata agggacttaa 600
atacgtattg tggttaaatt aaatggaccc aaatggaggt aagtaaacct aatgggacaa 660
atgaataaaa ggtttatgac tgggagcatt taccatgaa cctccttaga agctatttaa 720
cctttctttt ggaaagccct gaaggctggg aacttaaatt ttaaagacag tacctatttc 780
cagaatcgct tccaaatggc catgttttaa agggccaaca ttttgggatg gccctgccc 839

```

<210> 191

<211> 697

<212> DNA

<213> Homo sapiens

<400> 191

```

ccatcctgaa tactgatttt ctaatggaac tctattcaat ggcgattgta aaaccctgag 60
gctcogttac tattatggag catactttca tctcattctc ggctattggg caatatgtat 120
ctcataagat tttatcacat ttcacagatg aactgttaat tgattccatg ggtacgatta 180
ggcgagatcc aagctggagc tgcagctctg agtcccataa attctttgtg cttctgtaaa 240
gaataaatct gtttttaatg caaattaaaa ctactggcag ggaatttttg ctcccagtta 300
ttaaagact ggaaatgtgt aagtggagaa aggcaataac tgcagtaatc tcttaccgga 360
ctctattata attccaaaca tacataatgg tgagaaaaac cggaaggga agaattgtggc 420
aatgtccact ctttgcccca aacataaccc ttaatttcca tggcggggccc aaactgggt 480
aaaaaccaa atggtaccct ctatagcatg caacttttat ttactccaa acgaaaaatt 540
attttgacta tggcttggga aatccattag tagaagaagt tttataacct ataggaaccc 600
ggccatttca tttctaccaa atcacaggaa ttttagaatg ggcaaggaa ttacaggaa 660

```

acttgcccaa ttatcttttt ttgggggact aaaccaa

697

<210> 192

<211> 687

<212> DNA

<213> Homo sapiens

<400> 192

```
ctgggtacta tagctttgta gtataattta aagtcaggta atgtgattct tccagttttg 60
ttattttctgc ttaggatagc tttggctatt ctggatcggt tgtggttcca tataaatttt 120
aggatagttt tttgctatct ctgtgaagag tgtcattggt actttgatag ggattgcatt 180
gaatctgaag attgcttttg gtagtatgaa cattttaaca atattgattc ttccgattaa 240
tgaacatgga atgtttttcc tttatttggc gctctcttta atttccttca tcagtgggtt 300
ataggtttca ttatagagat ctttccttct tttgggtaat tcctacgtat ttaatttatg 360
tatcgctatt gctaaatgga atgacttttt aaatttcttt ttcacattgc tcctgggtggc 420
atattaaaag ctactgatgg atggtgattt tggattctgc cactttactg gaattgggtgg 480
atcagtttcta atcgttttct tatgcacccc tttacgggtt ctacatgtaa gaatatatca 540
ccttcaaaca cggataatct gacttcttcc ccatccaatt gggaggccct ttatatcttc 600
tcttggcctg aaggctctac ttaaaacttc ttatcccttt gttggaataa cagtgggggac 660
aatggacat ccttgtcat ggtccca 687
```

<210> 193

<211> 493

<212> DNA

<213> Homo sapiens

<400> 193

```
ctgctaaaat gatgttgcta aagcattcct tttcttttg attaaacttc atgtttacaa 60
aaaaattaat tctagcagaa taacgaatgg tttgttttc tagttctctg ctgaatgaac 120
agttttgcca attatcttca tagagtatg atataatgaa tgcaacctca aatgcaaacc 180
aaccaattca cagtccatac cccaatcact tccttcata gctcaaaaaa tcgctaagtg 240
aaccagtaga atggtttttg agcagtaata ggaaagcaaa tagaaagtca aggggggactt 300
tcaacgccaa caagaccaat tcagatcctg atctgactgg tttctaatac aatctctttc 360
cagagtaatg gagcatgagt ctgccacaca gaactttaga gagagtcctt tatttcaaag 420
actgtaaagt tggaagaatt cattcatctg caaagtcaaa tgtcaaaagt tgtgcttccc 480
actcctcatc agg 493
```

<210> 194

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 9, 12, 17, 30, 179, 187, 265

<223> n = A,T,C or G

<400> 194

```
cyagggcant tnaagcangas aaggaaatan mggggattca attagggaaac wraggakarw 60
caagttgtcc stgtmtgcag atgmsgtgat tgtatatcta gamcacccca ttgtctcagc 120
ccaaaatctc cytaagttga taagcawctt cagcarmgtc tcasgatscr acmtcwatns 180
gcraaantca cmwgcattct tatacaccaa tawcagacaa acagagagcc aaatcatgag 240
tgaactccca ttcacaattg ctacnmaaga gaataaaaata cctaggaatc caacatacaa 300
gggatgtgaa ggacctcttc aaggagaact acmaaccact gctcaaggaa ataaaagagg 360
```

```
atmcaamcaa atggaagaac attccatgct catgggtagg aagaatcaat atccgkgaag 420
atgg 424
```

```
<210> 195
<211> 229
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 12, 29, 35, 36, 38, 42
<223> n = A,T,C or G
```

```
<400> 195
tgaacaccct tnggaaggaa cctgctcgna tgtannanaa anggaccgga cagtctgcta 60
aaatcgccct ctttagacgc ggcgcgccgg ggcagagttt ttctctgggtg ctttgacctg 120
tatttggttt aatgggtttg tcctaattctc ttcaatcaat aaaattgtgc gtatttaact 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 229
```

```
<210> 196
<211> 557
<212> DNA
<213> Homo sapiens
```

```
<400> 196
gcggtggctc atgcctgtaa tcccaccact ttgggagget gaggtgggca gatcacttca 60
agttgagagt ttgagaccag cctgggcaac ataacaaagt gagatcttat ctctacaaaa 120
aaattaaaca aacaaaaaaaa caaatcaaca ttcatttgca gggctctttg gtcttcttaa 180
agaacaaaca tatgaaataa ataagctgat tcttaaagat aacaaatata atgagctttc 240
tcaactgtaa aagcatctct aagttgttct atcaatgcat atccactcca tgaactaacc 300
tgaagaaagt gttgaccatt ctacccaatt aactgtaaac taagattgct ttaatgggtt 360
gcctaaattt gagtaccttt aaatttttgc tttttatcca aattcattct cccttcttca 420
aattaaatag ttttgttaga aatcggataa gcaagatgta ctttttagaa agggcaatag 480
aatctacaa catgctagaa tttgaaatgt ttttttaaat cagtmmtttc tctatgctag 540
taactaagaa aattata 557
```

```
<210> 197
<211> 624
<212> DNA
<213> Homo sapiens
```

```
<400> 197
ttttactacc tatattttaa atgatccctg acgcccctca agacaaatat attaattttt 60
ttactttgtg ggatagagat cagaaaaaga gtagagatga aaatactgga gaaacaatgc 120
aggagatatt tatgaggtga gaatgtcaag aaacttgtaa agggagaata ctataatgac 180
ccctgaagag agagcttttag accagttgag tattagaggt tgccacgtgg ctattcatcc 240
actaataaat acaagaaatt actaaaatgg aagccactgg aaatatgttt tgaggaaggt 300
gagaatgtgg acctattata aatgggtgaa tatgatttct ttctcattaa gttcataaat 360
aactttcaga catgtaacag tttatgaagt gtgccgtagt catttagtat aagttttata 420
cacaaaagtg tttttactaa gactgtcaca ggttcttttg tgaatcttgt ttgtttttcc 480
tcattgtaaa tactgcaata gaacatttgt gtcttaacat aaggcaataa atgaccttaa 540
gaaccttcac ttttatatag aaagtggagg aaaagtgggc agagtaattt gttgattata 600
gataaaagct cttgtagaaa ttgg 624
```

<210> 198  
 <211> 175  
 <212> DNA  
 <213> Homo sapiens

<400> 198  
 tttttttttt tttttttttt ctaacactta tgcatttatt ttcattgtgta agaagaaaaa 60  
 cgtaactagc acgtgaacat gactgcatgg atacacggct cagcacgagg cttaaagtcag 120  
 aagtgagtga aagcaaaacc gcatgttgat ttaagtgaat taacagaaca gaaaa 175

<210> 199  
 <211> 871  
 <212> DNA  
 <213> Homo sapiens

<400> 199  
 ctgttgatca atgatgagct cccaagagta accagcctct atatagtcag catcactggg 60  
 ttctcaggaa aagcatcacc attgttcacg ttgctgcaaa atgtatgcac aagtatcttt 120  
 ttattttttaa aaaagccctg acattttatg actgctgctt ttctaagata ttttcaaata 180  
 tacagtccat acggttcaga cacaatggac tggggataga gacggctata gtgccgataa 240  
 tggagaaaact agccagagct tcagatattt gttttccagg acatctcaat aattgggtac 300  
 acctcacaat atgtgagact tgacgtcgag tggcacggca tactctggcg caggcacttg 360  
 ataaagactg tgtttgcaaa tacttagcct gcacttcaag ataccaggca tctaagcacg 420  
 tcccagatgg tgacagttaa tcttcaaaaa accctatgtg gaagtattat cattgtcctc 480  
 attttacaga tgaggaaaaa gagacacagg gatgtcaata tcttcctcaa ggtcacacag 540  
 caagtaagtg atggaacagt ggctcagcca tgaagctatt gctgttaacc actaggttga 600  
 tttgccttca ttaatttctt cctaaaactg cacatttccc gttagtccct ctttttgggc 660  
 tgtcgtttga ctcttggtta ctgcttagag gaagattcat tctattattt tctaacttag 720  
 taaatatgtg caactccttg gggacatgac caggcaaaag ctggatacag aaatgtatgc 780  
 ccaaacacca tcccaagtta cccctaacag gtcttttctg gaccctgttt gtaagggggg 840  
 tatatttggg aaaattttta aaattttctg g 871

<210> 200  
 <211> 737  
 <212> DNA  
 <213> Homo sapiens

<400> 200  
 gacattttga aggtaacagc aatatctgtg tatagatggg gttgtgggtt tgttatttat 60  
 ctgctattgc tgaactatcc tttgtcttga gcgataaaag agaagtaaaa tactaaagaa 120  
 ctgaactgtc catttctgga ccatgagtaa agatgctggc tgtcaaaactt cctgttcata 180  
 cattagttta tttatagagt gtactctcta tgaaggat tgactgataa tgttactttg 240  
 acttcagata gcttgcagtt taatggagga agaagacaaa catgcaaata actaggtcaa 300  
 tgaggcatcc tttgtgttcc attggaagct aggctgcttt gtaaccttgt taatttctgt 360  
 ggttttggag tgcattcatt agcaaataca cccctgttcc ttatccattc tctgcttttt 420  
 tctttatttg gcatttgatg acattttttc atgtggggaa attgagtcag gtgagggtga 480  
 aagaaaataa ggacacgaca ctaaattctt tgaatttttt ccttaaaaaa ttgtttttca 540  
 agtgctccat aaagggttgt gaagttttaa gagccatagg acttgatta ttgtgaaaga 600  
 gtgtctctag ggggccaggt taaaccattt caaggactct ccttctctca tctcccttgt 660  
 tccaccaggt gtggcgaccc ccaaaaagca caaagcctcc ctttcttcat gggaagggta 720  
 aggaacggaa gggaacc 737

<210> 201  
 <211> 493

<212> DNA  
<213> Homo sapiens

<400> 201

```
tctagaaatg cagcttttat ttattacccc atttctttca agtccttgga aaataacata 60
ttaagggtac aagaaattaa cacatgatgg aaaagtcatt gtgacgcaa tgaatttcac 120
tgagtataaa ctcatctact tcaaatttat ttataaacac aacctaaagat actcaagata 180
attatttaat ggtagctct taagttgaat tggctacat aatgcgtggg aagaaaacca 240
gatttttagc cttcttgcca aatccagacc tctggttgat tttctttga cagaagatgc 300
aagttatfff ccaatttcac aattaaatgt atttaacatg aacattatff tgctttaaaa 360
actataaaca ttgtaggaga attatagcca gtcttcagtt ataaccactc caccctcctc 420
actttctctc tctctctctc tttttttttt gctatgggat ttaatgggaa aaatatgtaa 480
aaactgtcac taa 493
```

<210> 202  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 202

```
cctttttatc tcagtgcac cgtccgggga cgcagggtgt ggtgactcaa ggctagcctc 60
aaagggcagc cccacctcct catcctggac cacagagacc acctgcttg cgcgcgctcg 120
cttttccgag aggggtggctg actccggggt gctgggctg gggctgccgc ccccgccgct 180
gttgctgtac tcctcgcccc agtcgatggg ggctgccctc ggacagcagg tgcaggtttg 240
gggcactgtt acgcaagacc atgctgccc gagaggtaga tct 283
```

<210> 203  
<211> 713  
<212> DNA  
<213> Homo sapiens

<400> 203

```
ctgcttttgc gcaaggtgcc actggacgag cgcacgtct tctcggggaa cctcttccag 60
caccaggagg acagcaagaa gtggagaaac cgcttcagcc tcgtgcccc caactacggg 120
ctgggtgctct acgaaaacaa agcggcctat gagcggcagg tcccaccacg agcgtcatc 180
aacagtgcag gctacaaaat cctcacgtcc gtggaccaat acctggagct cattggcaac 240
tccttaccag ggaccacggc aaagtccggc agtgcccca tcctcaagt cccacacag 300
ttcccgtca tcctctggca tccttatgcg cgtcactact acttctgcat gatgacagaa 360
gccgagcagg acaagtggca ggctgtgctg caggactgca tccggcactg caacaatgga 420
atccctgagg actccaagg agagggccct gcgttcacag atgccatccg catgtaccga 480
cagtccaagg agctgtacgg cacctgggag atgctgtgtg ggaacgaggt gcagatcctg 540
agcaacctgg tgatggagga gctgggccct gagctgaagg cagagctcgg cccgcggtg 600
aaggggaaac ccgcaggagc ggcaccgcag gtggatccag atcttcggac gccgtgtacc 660
acatggtgta cgagcaggcc aaaggcgcgc cttcgaagga gggggtgtc caa 713
```

<210> 204  
<211> 275  
<212> DNA  
<213> Homo sapiens

<400> 204

```
gtagacaagt acagcagatc cagacaccag atctagctag gctaaatgta cagtatctaa 60
cttgatctga actgaacctg tattccttga tgatgcctaa aactacatcc atagaattct 120
ggtgaacctg taatacagtt ctgaaagtac agttttatat aataagatgc tgatctcttt 180
```



```
attcttttcaa gtaagagtgc tagagaacaa atttgtttac ttgccttggg atttattgaa 240
cgtctggaaa atgctgtctt cctagatcca aacag 275
```

```
<210> 205
<211> 694
<212> DNA
<213> Homo sapiens
```

```
<400> 205
ctgttcctgt acattttaact gaaaaaaaaag taacttaaaa taatataaaa atagcactca 60
tgtatgtcct acagtttatag gtgaaatttg atattgtttg tcttacatag catacctata 120
gacagcttaa gtaaagtgac tgtaagagg gttatgctta ttgatgaact cttgtagttg 180
cttaccagct ctgttagtat agttaaattg atctcagtag cttcaagtat ttataaaatg 240
gttgaagtcc aaatacatgt gataattaca atacactttg aattaatgga ggggtgggagg 300
ctagttgaaa tgcattttat ttacccaagg agtatgttaa aatgatagtt ataaatgttg 360
gaagtttaaa gcaagatact cagtttagtt ctttacaat cataagaaga acaaaattag 420
atgttgacat tgctatttta ggctgtgtgt tttccatatg cttcttgctt tccctgtcac 480
aggtgggtggc agcaatattg gtgtgattga gggtatgctg gcaccactcg cacacaggcg 540
cacaatgggtg ttagctgggc agaaagagtg gcctctctgg ctaccgggct gggggcgacc 600
tttaccatag gatgaagtaa ccttgcatc ggctgcaagg tgtactgtac cgtacacagg 660
tgctgggtcg atggccactt tctgcttttc tttc 694
```

```
<210> 206
<211> 704
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 12
<223> n = A,T,C or G
```

```
<400> 206
tttttttttg gnaaaaacag ggtttcatca tgtttgccag gctagtctca aactgctgac 60
ctcaggggat ttgcccgctt caccgaattc aactttcgta agtcagtatt taccatctaa 120
ctcagtgtcc caaaatttaa aatttccttg cactttacag caaaaatata tattggggct 180
ctactgaagc aatatatata tgtcaaaact aaaaatcaga aaagcaaaag ggtccattca 240
acatatagca gcttatattt aaatatgtac aggtatgtat gttttcacag ttagatcttt 300
aaaaaaattt atatttgata tgttcaaaaa tacttctatt ggctataaat aatattttta 360
aagctcaact gatcaaaatg cattccaaga acatatcaaa ttaaataaat cttctacgtc 420
tttaaaaaca gataattgaa gtcagtaaag cttgaggttt gtgttaagtg tattctgtca 480
gtccctacta ctagggaagg cagaatcttc taaatacgat acgaaagaaa ctcccaaagc 540
ttggaaggaa tcggcagctc ctgaactttt tggggggggc atccctcttc gggattgaca 600
tgcgacataa atgttgcaag ctaagggacc cccccgggg gagtggggcc caaaaaaac 660
cacaccttc ccgtcaatgg tggcccccc accaacctta aaaa 704
```

```
<210> 207
<211> 225
<212> DNA
<213> Homo sapiens
```

```
<400> 207
ccattttaac tgtactgcc aatagaattct ggaattgtgg aaaattgtat cattgaagtt 60
cagtaggatg tgtggcttaa aaatttatca ggaccacaaa aaagaaaaca aaaatatttg 120
```

```
gtactgaggt tcattgccag ggcaggaggt atttccagaa aatactcatg cctgtgttct 180
gttccttgct ttcccaaata ctgcatgtga ctttcctaag cggca 225
```

```
<210> 208
<211> 678
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 382, 391
<223> n = A,T,C or G
```

```
<400> 208
cctatatcta tcaaaaaaaaa tccagttcct aactaataat ctcccaaaaa gaaagcacca 60
ggaccagatg atataaatgg caaatTTTTT caatcattta aggacaaaat aataccaatt 120
ctgtatcatt tcttccagaa cacttcctaa ctcatcgtat gaggccagca tcaactctaatt 180
agcaaaacca gataaagcca ttacaagaga gagtgcagca ccaatgtggt tttattgagg 240
atgcaaacia aatttaacat aatattttaa agtgaiaaac tggatgctct ttccttaagt 300
tagagattaa ggaaagaatg tccccctcac tactcccata caacacctta ctgaaaattc 360
tagctagctt tataaaataa anaaaaacca naaaataaaa taaaagggtg acagactgga 420
agatacagtg aaggaggaag aaataaaatt ttctttgctc ataacatgat tcttctatgt 480
ggaaatcaca gagatttgaa catttttttt ttttgagaca gtttttgctc ttgttgccca 540
ggttggagtg taatggcgcg atctcggtct actgcaacct tcacctcccg aattcaagggt 600
gattctcctg cctcagcct tcccgagta agcttggga ttaacagggc atggcacccc 660
ccatgcccc agctaaat 678
```

```
<210> 209
<211> 720
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 366, 399, 406
<223> n = A,T,C or G
```

```
<400> 209
attattttga accctagcat ttagaaatga aaaacttttt ataacaatca aatacatgat 60
aaagtatgca aagagtagga aattattctg atgacatatg gagggttaca aaggagaaaa 120
ctttttgcta cctctgataa agaatagact aaattctcca agaccaatct gactggtgtc 180
ataataaaaag gaggtacaca cggaagcaca agggatgtgt gcctctggag gaaaggtcag 240
gtgaggactc agtgagaaga caagccaagg agccaggctt tggaagaagt caaccctgtt 300
gacaccttga tcttggaacta accctgtgga caccttgatc ttggactttt agcttccaga 360
actgcnagaa aataaaattt tcttgtttaa gccaccana gtgtantgtt ttgttatggc 420
agccctaaca aattaaaatt atattttaac agagaatata aaattctaatt ataacatttt 480
acagtaaagc attcatggct ttttttttct tattaataaa tccatcaaaa cagaaagttt 540
tgcaaaattt taacacattt ctctaccact actgtttcta ctctcttaaa actactccgc 600
aaatataaaa atagaaggcc aaaatgcctc attaaaacga tgtttgggga ctaatggcct 660
taaaattcta ttacacttgg aaatatacaa atattcaaag attatctatt gatcacctca 720
```

```
<210> 210
<211> 277
```

<212> DNA  
<213> Homo sapiens

<400> 210  
tccatgtatt tttatacaga atggaacaat atgtatgtat gcaatyktta cattccacca 60  
tgaaataaaa cagtataatg aaaataacaa tagattcaaa caatgatatg ctatTTTTTT 120  
ttacctatga cattggcaag gtcttcttaa aaaaatctgcg aataaccgat gttggagaga 180  
tcatggggaa atagccactc aaatgttact catgagagtg tacatatgtg taacttcact 240  
tggagggcaa tttggtgata cttttaaaaa gtttttg 277

<210> 211  
<211> 715  
<212> DNA  
<213> Homo sapiens

<400> 211  
gtggtagaaa tactaatttt gcaattacag aaaaaaacia atgccattca catgggttyct 60  
aacaaaaagt gtctgaccac ccccccctca ccccctcaa aaagccctta aataaagagg 120  
aagatcaaaa gaaaacaaaa taattcccga gtttcacctc atacatacaa tatagcacag 180  
gaagtggcaa agttttaaata aatgccttta ctgttaggac tagtatgctg tcaaaagcca 240  
caatcctttt gtttttagtga gttgattttc aatagaaaaa tacaatgaa catgtgttta 300  
agttccaaca tggattgagc acctctgaat ttagtatcaa atgattaatt ttatTTTTTca 360  
gatgtcaaat cttagtataa aattttccat tatTTTaaac ttcacttgaa tctTTaaaaa 420  
agctgtctaa attgtactat atgagttcag tTTaatcttc tgtaaaatgc taacaaattg 480  
aactgtcagc agtctTTTTaa aaaaaaatgg gggctgggtt atttctagaa gaactctcat 540  
taagctttga aaatcagaaa tcagagacaa ataacttcag atatagacta gctccacaag 600  
caaatttata caattatctg taacagtcta tacatatatg tgtatatata tataccgtaa 660  
ccactttcat aggtaaaaaa tattaacttc atgtcacact atgatacagaa gtata 715

<210> 212  
<211> 717  
<212> DNA  
<213> Homo sapiens

<400> 212  
agcctcccc aatgccttaa aaggtcacag tagatctcag ctctgaacag aaactcaact 60  
gaaactcttc ccacaacca gcagtagata tattaataacc tacaattttc agggatacaa 120  
ccaatatTTa attcttttga gggttttgtg tTTaatataa ggacacaaac acacgtataa 180  
aatgacgatg tcaatactga ttaaacagaa caacaaaata agaagctcaa attatcatca 240  
gctattgtgt atatctgaaa taacaataat gcacttgatt ctgaaagaat gattagagtt 300  
cctactctga aaatctaatt gtcttgatgt ggcaagtga gaagaaagga tgatttttct 360  
aatgaaaagc atgtatacgg gtagcccttt gcgagattct gtcaaaaccc tgaattttgc 420  
attagctgtt ttaccacca aacgttttta cccgaggatg tgcagcaatg ggaactctca 480  
tacactgctt gtgggaatat aaatcagtat aaccactttg gaaaaccatt taacattgtc 540  
aactacagct ctacacacaa gtgctataac caccatttcc actccagggt atacacccta 600  
aaaatatgaa gtgcccagtg ctacccaaaa ggccgcctaa aaggaaatgct tttgagaagg 660  
gttaaccttg ttaattagtg gcaaaactgg gaaaacaacc cccaaatggg cccatcc 717

<210> 213  
<211> 599  
<212> DNA  
<213> Homo sapiens

<400> 213

```

cctgttttgg cgaggcagga gggaagcggg atgggagtgg tggttaggcc aagggtagtt 60
caaagcgatt cagcaggatg atgaccacag gagtgtctga gccgggcctt tcagcccccg 120
tgtggatgat gaccggccat ccaggacatg cgagggcttg ggacagtgga cagccagtgc 180
cacacaagga aggaccgatt aaatgacaca gttaaaggaa tttggcctag ggagtgaag 240
ccagaaaggt ttggtctttt tatatatgta acattggaaa aaaggaaacat ctctgttcc 300
ctgtattaag ttttgacttt agctcagcaa atgcagtgtt tgtggcagta aatatactct 360
gataacaatg ttctttccca ggaatttaga gttttatgat ggttattgaa aatgtttaca 420
tgacaggctg tcaataatat tttttgcttc taaaaataaa acatacataa agtgtaacgga 480
ttttaagtat gcaactcact gaacttttca taccgtaata caccacccta gtaaccctcc 540
cccagttcaa gatgtagact gtttccaata acccctcatc ctgttcctta atagcccc 599

```

<210> 214

<211> 789

<212> DNA

<213> Homo sapiens

<400> 214

```

ccttatgaca aaccttgcta tgccaaggat atgcttcact atcttcatct atcaaaacac 60
tatgcatcat agatatctaa ttttttcac tcttgcata agtctttcct gatttccctc 120
tgctgaaatt tctctcttca aatgatgtgt ttccatagta ctttgtccct tttcaaagat 180
atatctcaca tcgcatattt taccacagtt agtttcattt cttaactctc acactagatt 240
acaaagtcaa tatagacaaa gaaatgttca acctatata acctcctctg cctatgctgg 300
taaattgcac ctactatgtg ttcaataaga gcttgtcttt ttcaatatac aaaactttgt 360
aaagattaaa gaccttgtag aaagtcaaga ggaagatagc aatttcaactt ctaagaactt 420
accctaagga aacattcatg aagagataca aggggttatg tgcattggatg ttcatatca 480
tattattctt cattatgaag attatgatgg taataatgaa aatgattatc ttgtattggg 540
ccttatttga agtcaagcat tgagaatgta ctttatctgc attatctcac tgagttctcg 600
tagcagccct ataaggtaca gactgttacc taagcttaaa aaaataaagt taatgtccaa 660
ggtcaaacia ctagtaaaag aagggggcta ggaaatttgg aaccccaaaa ggggcaacct 720
gtcaagggct atgaatcctt accattatta taaggaagct tggcccatgg tggcccaaaa 780
aaaaccggg

```

<210> 215

<211> 765

<212> DNA

<213> Homo sapiens

<400> 215

```

ggatgtctga gcaggagaga gaccatgtga aggatggact gaatggagac ttgtatcaaa 60
gagtctgagt atcaaagact tgtattagag agggttgttg tagtaatcta gtcagggtat 120
gagaaatggg ttgtattaga gtgtcaggag tagtcgtggc aaaaatatat agatcaggat 180
gagggatggg cctcatctca caccctgact ccagtcaatg gcagtggctc cctggagtac 240
actactatag gaaggatttt gtaaagtttt gtctggcctc agtggagggt gaggtagggg 300
aggagttcta tgaacagtta gtggtgtctg ccatggttga aacaatggag aagggggaca 360
ccttttctgt gcagatgttg cttctggtag atataatcca caatgtaatg ggagaagtac 420
taagaatcag taaattatgg aggggtgtaa agactactga tatttaagcc tgcggaccgg 480
acttagagaa atgatagtta aaggagaaat atccagaaa caaagatatg acattgaagt 540
ttgggactgc gatttagtacc agagatttgg attggagggt atttgtatag aatggatagg 600
tgattttact cttgcaattt ggattgagg gtggggaaaa ccagaaagg gctggggggg 660
aaattagtag aaggtcacct tgaattcatt gtggtccata tcaatgctga aactgattgg 720
ggaacttttt actcttgagt ccctttgtaa gggaacccca gaaag

```

<210> 216

<211> 780

<212> DNA  
<213> Homo sapiens

<400> 216

```
cctttttctg tggcaaatgg aggcttttca ctgcctgtag agacaataca gtaagcatag 60
ttaaggggtg ggtcagaaca tgtaagata acttactgta tatgtattcc cttgtatttt 120
gttaaagctg gaacatttga tttttttcca tttatttatg aaaaaatatg aacctatttt 180
catttgtaca aggtaattgt tttttaaagc aagtcacctt aggggtggctt taattgtata 240
agtcaagcac atgtaataaa ttcaaaacct gcagttaaca ggatattaga catcaatcct 300
ggtaaccaa tattaagat tctctttaaa aaagactgaa catgtttaca ggtttgaatt 360
aggctaaaag gtcttgcagt ggcttttcat ggcccttcaa attggaatgg aactactgta 420
ctttgccatt tttctataaa tcagtacttt ttttttaatt ttgatataca ttgtgtgaaa 480
aaagaaaatg gctaataaac tgtattaaat cttaaacaat gtataaagat tgcacttagc 540
cagttcaaag tgtataactta ttcataatga attataacag ttataattct gtgttttctt 600
gtaaatgttt cttttccctt aaatacagat aattcatttg tattgcttat tttattatga 660
gctacaacaa aaggacttca ggaacaagta atgtattagt atgggttcaag attgttgata 720
ggaactgtct caaaaggatg gtggttattt taaatataaa tagctaattg ggggtggtaaa 780
```

<210> 217  
<211> 810  
<212> DNA  
<213> Homo sapiens

<400> 217

```
cttttaggca gcccggcacc ttcatccata ggcagagaga gaactgggtg ttggagactt 60
attcgagggg ataggaaggg ccctgtgaag ttgatttaac ttttggatgt cagactgtga 120
aagctcctga gaaacttggg gtaataggat cttcttttgg ggatgaaaat ggggaaggcg 180
tgaggacctg gactacttct ccctagggtc gaaaaagaga attaccctt gacaaatatg 240
atacctgcta ggtatttccc agggaaattt agggattggc gtctttccct agcatgtgga 300
ggaattggca gacagcttcc taaggcgggg gagcgggggc ccaaggctga cactgcttgc 360
atccacgtga ccttaagtta tggcagatga ctctgaaacg gactgaggcc aatgagaaca 420
gatggatgga gcaactcagg tagacttggt ccttctccta tgctggagga gagggatggt 480
tctctagaat gttggaggtg agttgagagc tcgcctcttg aatgttgaac agtgactctt 540
tctgaaaact gcatattcac tttatgtggg ttcagaatac tgggctcaat actaacataa 600
gaaagacact tcattgagaa attcttaagc ttacagaaaa cctatctctt tgcacattcc 660
acataacccc tagcaaaatg caggttcttc atacttctgt cctttttcca ttggaagaat 720
tgcttaagga aaaattaatt cctatttatt cccacaaaag gttgggcatt gctttgattt 780
taccocatgg gggaatgtgc ctttgaaatt 810
```

<210> 218  
<211> 817  
<212> DNA  
<213> Homo sapiens

<400> 218

```
ctgctccctt atggagggtct cttcattaat aattattgga tagatagaga aggtgagcct 60
gtggcttcca agtaccggct tttgctgaag gtctacatgg gaagaagagc atcatttgat 120
attcagtaga tctgccacac ccaactggct ccatctcctg gaaaacagca ctactacaa 180
gcaactgtaa tagcaccag caatgaccac gctgctcctg ctggctcttc cgtacaccag 240
taaatagaact caccaatgta ttgcacacat acatttcaca gtagtacaat aaagccctgt 300
atcaggagtg gtaattcaat gacttgactc tatagtgcac tgcagcttta tgtcatacca 360
acattcaaat attcaaatat ctttccaatc catttggaac aaaatacacc atggctgcca 420
agacacatgt atttttcttt cttccatgga ctccataaact gctcccacaa tcagcagtgt 480
```

```

tcttctctca gaaattatct taagcttctc tactcaatgg gaggtacaca cagagacctg 540
agaatatgca gaggccagaa tctctgtctg tgctagagat caactgtact ctgcccacct 600
ggggaacaca tcctctgggt aaagtactcg gaagtaaatt acattccctg gagacagata 660
cgggctttca ctgcagcctg ttagaaaaca caatgtctgt aagttacctc ataggtcaaa 720
gagttttgga ttatatTTTT cataatgggg ctatggcctt tttaccctgg ttttaataca 780
gaaccacctg cagaaaggac attgaaatta aaagcca 817

```

```

<210> 219
<211> 661
<212> DNA
<213> Homo sapiens

```

```

<400> 219
ggatgctgag gcaggaggat tgagtcctgg agtttcagga tacagtgagc tatgatcatg 60
ccattgcact ccagcctggg caacagagca agattctgtc tctaagaaaa ggaaaaagaa 120
aatgaataga tagtggtatt agatgttaat gacatcagtt gtttttattc ttattctttt 180
cttagaaaca gattagtttt ctgcaattaa agaactacca tttttctttt ttctacaact 240
ttcaagagct ggtgaagaaa tgatgttttag atttaataga tatagtagca gtcatatatt 300
aatagaatag aaactgagac tctaggaaaa agatagacat gagataagga gtaggcattg 360
tagacatttc tagattatct atgaaaatgt tgtagaattc attttttttt ttggtctgac 420
ctttggcaat ggtgctgagg aagggaagc cagcccatca ggcaaggctc tgttttctgc 480
attttatccc gtttgattct tctcgttagg attggagcaa ataatttcaa tatgttcttc 540
gctgggttta tcatagtgc ccttcattta aagggaactt taacaattga cttaaagaac 600
actgagatgt gatattttat tgggatttga aagttgccat tgggttttac cttccttaat 660
t 661

```

```

<210> 220
<211> 792
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 169, 171, 172, 399, 400, 401, 402, 643, 666, 724, 727, 731,
755
<223> n = A,T,C or G

```

```

<400> 220
cctcttttta ttctacaaa taattttcaa gtacacacaa ttgggtaaac aaagaaacaa 60
agccaccaag aatgaaaatc agtaggaata acgaacaaga ctacacagatg tcaaacaagt 120
ctgtgggtct tgcagacttc agatgttggg attattagtc gtggcaagng nncaaaacat 180
tagotattac cattatgttt accaactagt gaagtgaact atgagaggat atattaacca 240
cagaagttaa tagaagaata gactcctgaa aatatctgga tgctacaaac taaaatatag 300
tatataatcc ttcatagagt gtcagtgact tcatatttat aattacattt ttgtatatta 360
gcagtgttct agttcttact gccttatctt taagctgann nnaaataaaa ttatatTTTg 420
ggattcaaaa acacatagct aatgattact atgtggcagt gttacattac tttatcacat 480
atcattaaca taatctgcat gtgttcaaag agactttcat acttctttgt agctccact 540
tctttgtcgt ctttgtagct ccacacaacat ctagaacagc acaaccgtat atggagaaaa 600
ctcagtctag tattcgttga atgactaatg gaaaatttag ttnataaaca gaactttctt 660
cattgnacaa attatcttgc agaagaataa tggccttagt ttaaaattat catattttacc 720
catntcncca ngttatttta tctcttttgg ctaanaattt tgaaaacggt accttttacc 780
ctttggcatt tt 792

```

```

<210> 221

```

<211> 759  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 245  
 <223> n = A,T,C or G

<400> 221  
 cttttctgct gctccgggag gtggagtggc ctggcagagg gcacatggct gccacctgct 60  
 gcaaggaaaa ttctcagtga agactcctca gtatgaagga gataagcctg cacaatcagt 120  
 cactgataga tgcttagtgg aaaaacttcc aattccatt tacagctctc agagctagga 180  
 ttaaaaactc ctggtcataa actcatgtga tgagaagtta tagcacgccc tcattttcta 240  
 catanccact tgcattttatg gttggctttt gaacttgcta gaagggaag aagtgcaa 300  
 gtgtcctcct tagagctact ctctcccct tgggtgggtt ccagtttggt cattgtccag 360  
 atggcccagg agctgacgat caaagggaag aagtcattgt tgtcatgaga atgctttgct 420  
 gcatcaggat tcagtgaagc tgttcaccgc ctggagccca tgcagcctca agaggcagga 480  
 tggagctcag aaaccatcac tgaggttaga aagtgagcac caaagttgag ggaagccac 540  
 aggagtgagc cgaagtgtct cctttggatt tccaaagtgg gtgctgctgc ttcttccatc 600  
 agccttgctt ctgaccccaa tgcgttctct gtgccttctt cttggcattt tgcgtgcggg 660  
 ggcccaagga aaaaaattcc tgcattggcag tggtgaaaaa agatggctgc ctgctgaaac 720  
 ctgatttggc ctgggtaagc cttttggagc cccggttaa 759

<210> 222  
 <211> 699  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5, 7, 77, 81, 84, 85, 278, 289, 291, 298, 301, 368, 395,  
 433, 441, 508, 569, 633, 646, 667  
 <223> n = A,T,C or G

<400> 222  
 ccttntnaag agttggcatt aattcttcac taaatgtagg agtagaattt atcaggtaag 60  
 ccacactgac ctctggncct nttncgccc gatgattttt aattagttga atccctttac 120  
 ttgttatata tgtattcata tattctgttc cttcttggat ttacttttat gattggtgcc 180  
 tattgaggta tttattttcta gtttgtggta cttcatgtgt ttaggttttc tagacagtgg 240  
 acatagaaga ttcaagaagc taaatgtagg agaattgnta atgtaggana ntgaggcnac 300  
 natatcatca atgaatgact tgaagtttcc tctgttgtaa agaattgatat taccataact 360  
 gccatagnta atattgatgg tgtaagtcaa ataanaaggc aggaggaaaag ggacatccat 420  
 cactgaacca canatcagag nctcattgaa gcctttgaga agaattccaca aaattttaca 480  
 ggataattca tttcctgcga tcaccacnag aagagaaaact ggttaaacag acagggtattc 540  
 cagagtccaa aaattttacat ttggtttcng aaccaaagac ctcagctccc aggccacagc 600  
 aaaagggggc ttatgaattc cctggcacc agncccaaga cccaanaacc tcattctgat 660  
 tggtttnggg cttgggaaac caaaaaacca atgggtggc 699

<210> 223  
 <211> 598  
 <212> DNA  
 <213> Homo sapiens

aaaaagagaa	agtttcagat	ttgccattca	aggcttattt	atatatatgt	gtgtgtatat	60
aaatacatgc	acacaattgc	atacatatat	atttttggct	gggggagtgt	gagttttgcc	120
tttctaagg	agggaacgcg	caggctcctt	tgttctgtat	tctggcggag	atgggtcctg	180
gccttgtgtc	actggcttat	ccttaaagat	catctcccat	cctccccagc	gccatctgtg	240
tgcagcaacc	agaaagggat	gaacttggcc	ctcttgcggg	cctggacaag	gtctcttctt	300
taccctttct	gttgccagtc	agcaacctgt	aactcacatt	ctcttcccag	tgaatcctctg	360
ggagcgcctg	acctgggtgg	gctgttcagc	ttctgtctgc	tggggccagc	aatttttgag	420
gatttatctt	taggccaggc	ttgcctccgt	acttatccct	gctctcccat	ttctctcttg	480
tttgagagag	aatgaggaag	caaagagtga	gaaagaatag	gggctgaaga	cgccactccc	540
agatggctct	ttctatcctg	ctcttctgtt	gaaacacacg	tgctgtgggc	ctcaggcg	598

<213> Homo sapiens

<223> n = A, T, C or G

aaacccctttat	gatgactttcc	ttatgaatta	ctgaacgaac	actggaatgg	gactcaggta	60
tcctgaggac	atctctcaac	tctggcctta	gttccccctc	tgtaaaaatta	gggtgccaac	120
taaatgatct	acaaggtccc	ttccagcgcc	gccattctgt	aattacatca	tgtgtaactg	180
tattaaacat	acacaagtga	ctgccaggca	tgggaatgta	acttccgagt	aaatgctttg	240
gtttgttcag	aatacactat	gaactttcttt	ccaaagacgg	gttgtgttaa	atagtggata	300
ttttgattat	aagaaataga	gtttccttga	agcttttagct	ggagatacag	caatagtgtg	360
gtgttcctac	aaatatcaca	gtgtattcaa	acatatTTTT	ctatcaaaaa	tcatttttgt	420
aaaagctgtg	tgtttttatc	caacttgtga	taataaatgt	tctttatttt	agaacaaana	480
aaaaaaaaaa	aaaaaaaaaa	a				501

<213> Homo sapiens

cctgtatagg	gctcgtttcc	ccacacatgc	ctattttctga	agaggcttct	gtcttatttg	60
aaggccagcc	cacacccagc	tactttaaca	ccagggtttt	ggaaaatgtc	aggaaaaaaaa	120
aaaaaaaaaa	catatgcact	cacacaatac	ccaacatca	raattagaag	ggcataaaac	180
agggggcttt	ataggctgaa	aaatatctta	ratttcaraa	cagaatacca	atcaaatatt	240
gaaaattcct	ttgttcaaaa	cacaaagatg	ttttgttttt	aatggagttt	ttttt	295

<213> Homo sapiens

agattcctgg cttagagcat gcgagcattg aaggaccaat agcaaaactta tcagtacttg 60  
gaacagaaga acttcggcaa cgagaacact atctcaagca gaagagagat aagttgatgt 120  
ccatgagaaa ggatatgagg actaaacaga tacaaaatat ggagcagaaa ggaaaaccca 180



```

ctggggaggt agaggaaatg acagagaaac cagaaatgac agcagaggag aagcaaacat 240
tactaaagag gagattgctt gcagagaaac tcaaagaaga agttattaat aagtaataat 300
taagaacaat ttaacaaaat ggaagttcaa attgtcttaa aaataaatta tttagtcctg 360
atgaaatgaa at 372

```

```

<210> 227
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 227
ggcccccgtc gcgggagccg cttcgggcct tctgggcatg tctgccatat ggctccaggt 60
ttgtttttct ccccggcact ctgacgggga gggctcccgg catctcctgg catccgggta 120
gaggacgcgg aggatgctga gctgctggcg cactgcagca caactagaga tgtacggatg 180
cccccatctt gatcttacag aatcagaggt acagccgcga gaaagagtca agaacagaca 240
gagtcgcttg aggactcagg aggggtgttg ctgcgttgac aacagactac accctcacag 300
tttgctctgc tcttccaaca ccagtggaa atgatcacat cccagggatc agtgctgctt 360
agggatgtga ctgtgggctt cactcaagag gagtggcagc atctggaccc tgcctcagagg 420
accctgtaca gggatgtgat gctggagaac tacagccacc ttgtctcagt aggggtattgc 480
attcctaaac cagaagtgat tctcaagttg gagaaaggcg aggagccatg gatattagag 540
gaaaaatttc caagccagag tcctctggaa ttaattaata ccagtagaaa ctattcaat 599

```

```

<210> 228
<211> 343
<212> DNA
<213> Homo sapiens

```

```

<400> 228
aaagtaaatt gtatgaaaaa ttcatttctt caattgcatt agccacattt tgagtattca 60
tgtggctggt agattctgta ttagcacaaa gatatggaac atttccatca ccacagaaag 120
ttctgttggg cagcactgca ttagaatatt ttcatactgc tcttctccta ttaatttttg 180
ttgttaaatgt tgatgtcttc attggatggg tcataatgtt ccatgaaacc gctcaagtag 240
acaattgtat gttcttttga tcccttacca caaatatctc gctctgctca tttcttttgc 300
agcttcttat aaagtttgtc ttctcaaaa aaaaaaaaaa aaa 343

```

```

<210> 229
<211> 417
<212> DNA
<213> Homo sapiens

```

```

<400> 229
ctcaagctgc agtccaccgg gtatggttct ggatggttcc cccaagggag caggatatgta 60
ggaggtgaag aaaactgaga tttcaagtat gggagagttt ttactatctc cattcctgga 120
ttaaagtgct tgaaaaagtc cacagttaaa cattccttta ttcaccctat ggctcccaag 180
aaaagcattc ttctcttgga gtactggtgt actaagggga caatacacca aatttggtga 240
gtttacaatc aagtctacta aggttggaact tcttatcag tttggcagag tcccagggca 300
gaataatcat ccactacag gtctctgttt cctctccctc cgcagcagtg gagagcatcc 360
cagtgtttgg ggcactgtgt tcctcttcgt ccctgcacca gacctggaa gccttgg 417

```

```

<210> 230
<211> 462
<212> DNA
<213> Homo sapiens

```

&lt;400&gt; 230

```

gaaataccag aagagaaaagt ttcatgtgtc aaatctaact tcatggcctc gctggctgta 60
ttccttatat gatgctgaga ccttaatgga cagaatcaag aaacagctac gtgaatggga 120
cgaaaatcta aaagatgatt ctcttccttc aaatccaata gatTTTTctt acagagtagc 180
tgcttgtctt cctattgatg atgtattgag aattcagctc cttaaaaattg gcagtgtctat 240
ccagcgactt cgctgtgaat tagacattat gaataaatgt acttcccttt gctgtaaaca 300
atgtcaagaa acagaaataa caaccaaaaa tgaaatattc agtttatcct tatgtgggcc 360
gatggcagct tatgtgaatc ctcatggata tgtgcatgag acacttactg tgtataaggc 420
ttgcaacttg aatctgatag gccggccttc tacagaacac ag 462

```

&lt;210&gt; 231

&lt;211&gt; 328

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 231

```

ctgtgggttt tcttaaacgc cctcatctg gttgaagccc tagtgtttct ttctcacatc 60
agaggcaaat gcattggggg gggctctgggt tggacaataa atttcctctg gtttggacca 120
agaaaaacag agttctttga ccgctaacat atatgtaaaa agaaagtttg taaaaacaag 180
agttaaaaatg cttctaacag tgtggtcac actgcacagg acactggaat tggcattcgg 240
ggttgtgtct gtccatgtgg ttctgttgta tgtcatgtgc tctcagctca gacagagaca 300
tccaattgac ttctgacttg gggcattt 328

```

&lt;210&gt; 232

&lt;211&gt; 595

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 232

```

cgccaatttt agcaaataag agattgtaaa agaagcagat tgaatgaaga attttttagct 60
gtgcagatag gtgatgttgg gatggaaaat gctaatacaac taccctttct tttatcaagt 120
aattaaaaata aatctacata aagaacccaa aggctgttt tataaaaagtg aaatatccag 180
tatttcagag ggccaggcaa gagcacttca gatgaggcag tcaaaaatcat ttttttccag 240
tgaggataga ccacaagtgg gtggtgagac cattgaaagc ctttatcaac tgaagagtcc 300
atttaacagc ataattttgtg ggaagactgg aatagggctg aataaatgtg tttgaatctc 360
taattttata ctttcttttc ctgaggaact tgatttttct gtccctggat cgcttgtca 420
taattgggtc tgttcctttt actaccactc ttgagtccat atatgaaatc attaaagttg 480
gatgatcagt tttttataaa aatatatatt tttgtccaag aaaaaaaaaa gcatacatat 540
gtgattatgg ctaaatacaa ggtaactgga atgtatatac ttttgctaatt gttcc 595

```

&lt;210&gt; 233

&lt;211&gt; 600

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 233

```

atgaaggtaa actctaaaat cttcataggt caacaaagaa aatttatcct tcacacttat 60
ttctagaaaag cagcagggtt ttttctctag attgcttaca atgaagctag aatatctgcg 120
ataactgtag agtttcaaaa aggatcccta gggctacttc tacgttctcc ttaccagttg 180
agcactctcc ataattttcca gacgggtcat gggggagaat gatagaaatg agcgtgggaa 240
gaaagacaat gaaattagaa atgggtgaga cacatggtgg tagaatgcta agagcaggga 300
tcaggacaat caaccaggtg tctaggaagg gtcaagtcac cagtgtcatc tgctgaccaa 360
tgtttaggaag aaataaactc aaaggaaaca ccacattttt ccaattaaac tcaaacttat 420
tgacttgtgg tggttctttg atgttgtggg gactgtctata acagaaacca attggatttt 480

```

```

caagggcaag aaactttgcc actgaataag atgatgtcat ccttcctgat aacaaatagg 540
aatgggtggt cagctctaaa cagcgtggac tgaggaggtt gcttttctac aatattactt 600

```

```

<210> 234
<211> 500
<212> DNA
<213> Homo sapiens

```

```

<400> 234
aaattcctaa ttcttttact atctttctcaa cttttcccaa agataaaata aatttcacat 60
aatttcattg aggggaaatg gtagttgtaa aaaactacct caagtagcaa tcaccgctgg 120
cagtgttttc tcactttctg ttctgcaatt gcaatcacac ttccaaaaag aaaagcaaat 180
gtttgctaaa ccatagacag acaacctctt tgtgactggt attataaggt ttataatgaa 240
aacttatcaa atataaaaag tgctccctct tgaaaatgtg tattttattt gaagttttga 300
gtaagagggtg agtgtttggc aattttcaac actcccctca aaaatctccc aaagtgtgaa 360
aaaagtcagt ttagtaaaat tccaagcact taaatgcttc attgagggcc agttgatata 420
cgcaatgcac taatgtgtaa aaattaaccg aatgcaacta ttttataatg gagagctctt 480
accttttctt tccagttttt                                     500

```

```

<210> 235
<211> 159
<212> DNA
<213> Homo sapiens

```

```

<400> 235
aaaattttaca gataaaggca gttcaatact gccactgaga agtacatctc ttaacatata 60
caacttttcag gccacagttt tgaaggctctg aagtattaaag ttggtttgat gaattagtcg 120
gttggcactt acgaacacat ttattgcctt gccatcttt                                     159

```

```

<210> 236
<211> 254
<212> DNA
<213> Homo sapiens

```

```

<400> 236
aaataagtga ataagcgata tttattatct gcaaggtttt tttgtgtgtg tttttgtttt 60
tattttcaat atgcaagtta ggcttaattt ttttatctaa tgatcatcat gaaatgaata 120
agagggctta agaatttgkc catttgcat cggaaaagaa tgaccagcaa aaggtttact 180
aatacctctc cttttgggga tttaatgtct ggtgctgccg cctgagtytc aagaattaaa 240
gctgcaagag gact                                     254

```

```

<210> 237
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 497, 505
<223> n = A,T,C or G

```

```

<400> 237
tttttttttt tttttttttt tttttttcta atttttactt tttctcaagt ttaatgtara 60

```

```

catacaaraa aacatcaagc aatgttttatt gkgcaattcc aatcattatt tgcaraatct 120
tggttttaaag tcagtyttta tagccatttc aactgcttgg tttaaacaaa aagcaacaat 180
ctgggttatyt acctataaat ttcatgggat ttytttaaac actgaagtac taaaagcact 240
gatgatttgt attataatth ttaaaatatt taaaacctac acagatttca taratcattc 300
cttttataaa ataatcaaaa taatttgatt atytggaaaa aaaaattctt gaaacaragc 360
cctttccagg tatyttcaat ctctgtaaaa ccccaaacc caaacagagt aratgatgaa 420
ataaggattt ctcaagtggc caagactgtc tgaaatttaa ggttgaaaaa tggactggcg 480
tttttcatgt ttctgngaa ttcanagctt acaggtggca tcaaaactca aatctctggg 540
atggctttac atggctttca ctttgatttg tttcattttc atttgcttct t 591

```

<210> 238

<211> 252

<212> DNA

<213> Homo sapiens

<400> 238

```

aaatggcttt tgccacatac atagatcttc atgatgtgtg agtgtaattc catgtggata 60
tcagttacca aacattacaa aaaattttat ggcccaaat gaccaacgaa attgttacia 120
tagaatttat ccaattttga tctttttata ttcttctacc acacctggaa acagaccaat 180
agacattttg gggttttata ataggaattt gtataaagca ttactctttt tcaataaatt 240
gttttttaatt tt 252

```

<210> 239

<211> 153

<212> DNA

<213> Homo sapiens

<400> 239

```

ccacaataaa gtttacttgt aaaatttttag aggccattac tccaattatg ttgcacgtac 60
actcattgta caggcgtgga gactcattgt atgtataaga atattctgac agtgagtgac 120
ccggagtctc tgggtgtacc tcttaccagt cag 153

```

<210> 240

<211> 382

<212> DNA

<213> Homo sapiens

<400> 240

```

aaaaaaacca tctaaaagtg gttttttta atatatattt tttccaaagg aagaaatttc 60
ttgctttttac tcagggaata aaaaaaatta aggtacattt gagtagaatg atttcatcta 120
aaagagttct ttcaggagac atctgtgatt cactgcattg tttttatttt cttctttttc 180
ctcttctttt ccaacatttc taccattttc ctcttcttgg ttgatatcag gccactttct 240
tttggttgctt tcttactgtc acctgttaaa ccgcgtttct ttgtgttagg ttttgaccgc 300
ttttcttctt tgtgcactgt gtcaccaggc tcctttttgc caattttgga ctgttcttta 360
cttacaggag aaggctctgc ag 382

```

<210> 241

<211> 400

<212> DNA

<213> Homo sapiens

<400> 241

```

ggcatgagcc accgcgccc gccctatctt ttacttttat aaatagagat gaagtttcac 60
catgttgccc aggctggtat cgagctcctg ggctcaagcg atccccaac cttggccttc 120

```

```

caaagtgctg ggattacaag cgcgagccac cgaaattatt cttaactagc aagactaggc 180
tctgacatca catccttata gttacatccc tttaagcagg gtccagccac tcactctgca 240
cctggagaac ttgatgggta tccctcgaag tgacagtcct gcaaatgaca aaaacactcc 300
aaatctatta gggtgggtgca aaagtaatta cgctttttgc cactgaaagt aagtcaccaca 360
ggaccctgag ggaaatggga ggggtgggta tacatagcag                                400

```

<210> 242

<211> 75

<212> DNA

<213> Homo sapiens

<400> 242

```

actcacatat gcagacctga cactcaagag tggctagcta cacagagtcc atctaatttt 60
tgcaacttcc tgtgg                                           75

```

<210> 243

<211> 192

<212> DNA

<213> Homo sapiens

<400> 243

```

gctccacatt tgtagcgaac actttgactc caaagagaag gaggaagaca aagacaagaa 60
ggaaaagaaa gacaaggaca agaaggaagc ccctgctgac atgggagcac atcagggagt 120
ggctgttctg gggattgccc ttattgctat gggggaggag attggtgcag agatggcatt 180
acgaaccttt gg                                           192

```

<210> 244

<211> 616

<212> DNA

<213> Homo sapiens

<400> 244

```

aattttatag caatatactg accatttctaa aaataacaaa atacatgttg ctctcaacta 60
catagttaaa aaaggtagta aattctctta cccaaaatag aggaggggtg ggctagttag 120
ctgctcaaac atttgtaaca aataaaaatg tatctatata catataatga tcatgttttc 180
atagcctaaa atcaccatac aaaatctaata aataaaaattg tgtcgtgttc aggagttggg 240
aagccaacac attaaattaa caaagtatgt ttggtatatg taaataatgg gatagaatct 300
ctcgaatcag gattgtccca gaagttctaa ggcagatgtc aatgacatgc acattgtcca 360
tggttcagtaa ttttcaaaga ctagaataaa ctatgtaaac tattcaatac aattcaatat 420
tacttaactg ctaaaaagta cttcaagatc ttgactgcc ttgagttagt ataatacaat 480
tagtaattgg aaaatagctg taatagcagg cactgaagaa ttctgacaaa taccacaaata 540
ctgtttgttt ttaccaaata aactggtaag atgatatcac aaagggtttt aagttatttt 600
gctatacaag gttttt                                           616

```

<210> 245

<211> 165

<212> DNA

<213> Homo sapiens

<400> 245

```

ttggaacagt ggattaaaat ccagaagggg aggggtcatg aagaagaaac caggggagta 60
atctcttacc aaacattacc aagaaatatg ccaagtcaca gagcccagat tatggccccg 120
taccctgaag gttatagaac actcccaaga aacagcaaga caagg                                           165

```

<210> 246  
 <211> 229  
 <212> DNA  
 <213> Homo sapiens

<400> 246  
 tgtactggat cctccaggt gggggcgact ctcacctgac tattacaata gcctcctaag 60  
 tggtttccct acttgcaacc ttgcccgat aatatctatc ctccacacag caggcagggc 120  
 gatcctttaa gaatagaagt tagatcatga aaatgctctg ctctgatccc tgcaaaagct 180  
 cgccacctcc ttacagtcac cgctgaactc gtagcagagg ttcaggagg 229

<210> 247  
 <211> 338  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 67, 206, 244  
 <223> n = A,T,C or G

<400> 247  
 ggaaaccgtg tgtacttata ctggatgatg ccaccagtgc cctggatgca aacagccagt 60  
 tacaggngga gcagctcctg tacgaaagcc ctgagcggta ctcccgctca gtgcttctca 120  
 tcacccagca cctcagcctg gtggagcagg ctgaccacat cctctttctg gaaggaggcg 180  
 ctatccggga ggggggaacc caccancagc tcatggagaa aaaggggtgc tactgggcca 240  
 tggngcaggc tcctgcagat gctccagaat gaaagccttc tcagacctgc gcactccatc 300  
 tccctccctt ttcttctctc tgtggtggag aaccacag 338

<210> 248  
 <211> 177  
 <212> DNA  
 <213> Homo sapiens

<400> 248  
 tgaaaacaaa tgaatttcta actcctacgg ttcatgtaga gtttagagaa aatttccatc 60  
 attgtcatca ttgaactgtg aacctgggaa gccagatcat gattaacact gacatcaagt 120  
 ttcaagttgc agatcaatgc acccagtgtt cagatgaggc aaacttctcc gtgacaa 177

<210> 249  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<400> 249  
 aaagtaatga ctttattaat aaatatacat ccatatgatg atgtagatac aaatcatgaa 60  
 cactactcca ttcccataca cataattgca cagcagtagc tcaagttcat ggacataaaa 120  
 acatacacag tatctattca gactttttac agcagaggac agcgtgctta ttatcagtta 180  
 attggttaatt attttctcca aaattacctg tggaaaaaag aaattctgaa aacttaaaag 240  
 aatcaaagtg atctgattac ttt 263

<210> 250  
 <211> 333  
 <212> DNA

<213> Homo sapiens

<400> 250

```

aaaaaaaaaca acagcgtaaa tattagccca caagagcagt cctaaacaat cacaattaca 60
ctgtactacc caagaagact gtttattgtg aagcattttac ctttcaaaaa atcattacat 120
ttctattttct tgggtggagca gcacattgtg gagtgtgatt cttaattctt cattgagttt 180
gtcaatagga cattgatgct ggatagggtg tcttttgttt ttatgcctca gaccatcttg 240
tgagattgtt tgcctatctc ataatacagt tttatgcaga aaggttgaaa ctatgtaaat 300
ggtttttatg gaaattatca gttacaatat ttt                                     333

```

<210> 251

<211> 384

<212> DNA

<213> Homo sapiens

<400> 251

```

aaaccatttg tacaaaactt ctataaattt ttctctctct ttctctctta tgtacaaaaa 60
tatcttaata tatccccgaa ctgggttagga tagatacaaa tagatttttt ataataaaaa 120
attcacaaaa gattggaagc attctataat gaaaatggta gaaaagacag tgtgagggaa 180
gccatggggg ttgggaatcg ggccctggag gagaagcaga gtttcaaagg gctgagaata 240
gcatagtttc actgtaaacc aatgtctaca gcttattggg gtgggggcta ctgagacgaa 300
agacaccaac tcgtttctag agggctaaga actgcacttt aagaaagggc ggggaggtga 360
agggacccga gcaagaactt tcag                                     384

```

<210> 252

<211> 211

<212> DNA

<213> Homo sapiens

<400> 252

```

aaagcagtct gaaaatggga catctgtaga gaaattcatt tccttcttct cctccggatg 60
tggaatggaa gcttttaggg aaggaaaagt aggaaaagag cgggatggga tgggatggga 120
tgggatggga tgggatagga agagaggctg gggaatgggc agagaagggg gtgctgagtg 180
tgctgtgaga tagagcaaga tcacaagaag g                                     211

```

<210> 253

<211> 135

<212> DNA

<213> Homo sapiens

<400> 253

```

aaaaattggt tcttgacaag ctgacttggc acttaagtgc acttttttat gaagaaaaag 60
tacaatgaac tgcttttctt caagcaataa ttgtttccaa cttgtctggg aattgtgtgt 120
ctggttaactg gaagg                                     135

```

<210> 254

<211> 361

<212> DNA

<213> Homo sapiens

<400> 254

```

cctgtagccc ctgctacacg ggaggctgaa gtgggaggat cacttgaacc aatgaggggtg 60
aggttacagt gagcccagat catgccacta ctctacaggc tgggtgataa gagtgaagacc 120
ctgtatcaaa aaaaagacaa ggaaaaaaaa aactgggccg tttgtttttg cagaatgtct 180

```

```
<210> 255
<211> 331
<212> DNA
<213> Homo sapiens
```

```
<210> 256
<211> 186
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 115  
<223> n = A,T,C or G
```

<400>	256								
cccttggggcc	cttgcacttt	gacctgcaat	ggggccacac	cagccttgct	tgtgtccacc	60			
tggaaggact	gagggaggtt	ggcacgaacc	atgcctgggc	tcaggccggg	cccanagcac	120			
ttgaccttgg	acgcattctgt	cacatcatgc	acagggacct	tgaaggact	gcctggcact	180			
tgatgg						18			

```
<210> 257
<211> 255
<212> DNA
<213> Homo sapiens
```

```
<400> 257
ctgggggtccg tcaccgacct ttggggaact gggctacggg gaccacaagc ccaagtcttc 60
cactgcagcc caggaggtaa agactctgga tggcattttc tcagagcagg tcgccatggg 120
ctaactcacac tccttggtga tagcaagaga tgaaagtgag actgagaaag agaagatcaa 180
gaaactgcc aataacaacc cccgaaccct ctgatgctcc cagagactcc tcgactcca 240
cacctctcgc ggcag                                     255
```

```
<210> 258
<211> 604
<212> DNA
<213> Homo sapiens
```

```
<400> 258
ctgaatttgc aatggagttt ggtggtgcaa tcggtattga ttagtttggc atagacagat 60
gcagcagttt agagcaaaat cgagaaaatg atttttttt tcctccttga tttcctggca 120
```



```

gaagatatct tactttttca gcaaactttt cttttaacac taaagcagcc tagggcaatg 180
ccagatactt agagcttttc tcttgattat aagtagaaat gggggtgtct gggctagagg 240
tggaggggtgg atgtgctgtc gtcacagtct agctggcagc aagcaaggca aaagcagaga 300
ctgctctaga agcggttcca agcagcagag acgtcaggaa aggcacttct tagtaccaac 360
ctctatgctt taatagttgc ttgttaagct gcttcatggg ttgagacaaa ctaccagcac 420
ttcaaagagc tcagttctct gctcaactct cttctctagt tacattatct tttttccttc 480
aggagactga ggcaggaaaa tcgcttgaac tcaggaggtc gaggccgcag tgagccaaga 540
tcacaccacc gcactccage ctgggccttg caaagtgcta ggattacagg aatgagccac 600
cagg                                           604

```

<210> 259

<211> 429

<212> DNA

<213> Homo sapiens

<400> 259

```

aaaaatgtct gtatcgagat cttccagttt gaagtcttcc tctctgtgtt cttcccaagg 60
ctctgtggca agctccactg gttctccgcg ttccatcaga accactgact tccacaatcc 120
tggctatccc aagtacctgg gcacccccca cctggaactg tacttgagtg actcaactag 180
aaacttgaac aaagagcggc aattccactt cgctgggtatc aggtcccggc tcaaccacat 240
gctggctatg ctgtcaagga gaacactctt tactgaaaac caccttggcc ttcatctctg 300
caatttcagc agagttaatt tgcttgctgt tagagatgta gcactttatc cttcctatca 360
gtaactgctc cgtgttcaga ctcttggtt cttccaggct tacagtggac atcatcagct 420
tcttgcttt                                     429

```

<210> 260

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 179, 318

<223> n = A,T,C or G

<400> 260

```

ctgcaacaca tgcagcacca gtctcagcct tctcctcggc agcactcccc tgtcgctctt 60
cagataacat ccccatcccc tgccatcggg agcccccagc cagcctctca gcagcaccag 120
tcgcaaatac agtctcagac acagactcaa gtattatcgc aggtcagtat tttctgaana 180
cgcatatggc agacggattt gcgataacca aggagagtgg cataggaggg aaaagcatat 240
gtggctgaaa cctgtaagtt ggtgttggtt atgcagaaat gtgtaacaga tcaaacggtc 300
ctctcaagtg totattanat aggcaataag aactgcagtg tagctgagta acatctttta 360
gctgactata aatcactttg ttttt                                     385

```

<210> 261

<211> 230

<212> DNA

<213> Homo sapiens

<400> 261

```

ctgtactgga tccctccagg tgggggcgac tctcacctga ctattacaat agcctcctaa 60
gtggtttccc tacttgcaac cttgcccgta taatatctat cctccacaca gcaggcaggg 120
cgatccttta agaatagaag ttagatcatg aaaatgctct gctctgatcc ctgcaaaaagc 180
tcgccacctc cttacagtca ccgctgaact cgtagcagag gttcaggagg 230

```

<210> 262  
 <211> 198  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 88  
 <223> n = A,T,C or G

<400> 262  
 atgttaagta aacatgaaat ctatataaca gaacaaaaat tcactcttat gtcaatgtca 60  
 gcgtgttaat gtagatctat ttactganac agactctgta gtggcagaga gtggccttgt 120  
 taagccagga ccctgttctg caggctgtgg gtagaagcta ggaagtcctt ggagtttcac 180  
 ccagcttttc catgaatg 198

<210> 263  
 <211> 157  
 <212> DNA  
 <213> Homo sapiens

<400> 263  
 aaaatatatt tctaaacaga atgggccgac tcagtcacag taactgttga tctccatagt 60  
 agagcaaccc acaaagacag aactgatttt tttcccataa tcaggggtga aaaatatata 120  
 acttgtttct gaacccaaaac cacaatttct gcagttt 157

<210> 264  
 <211> 290  
 <212> DNA  
 <213> Homo sapiens

<400> 264  
 ctggctactc caagaccctg gcatgaggct gaggacaact tacaagggct tcaccgaagc 60  
 agtggacctt tattttgacc acctgatgtc cagggtggtg ccaactccagt acaagcgtgg 120  
 gggacctatc attgccgtgc aggtggagaa tgaatatggt tcctataata aagacccccg 180  
 atacatgcc taccgtcaaga aggcactgga ggaccgtggc attgtggaac tgctcctgac 240  
 ttcagacaac aaggatgggc tgagcaaggg gattgtccag ggagtottgg 290

<210> 265  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<400> 265  
 aaaaaaagga aaggaaagag aggaaaagaa aataaaataa gacgatttat tgcttctcct 60  
 cagcatcctc cttggtctcc tccttcaccg agagagcttc tagcttttcc gccacttttt 120  
 cggcatgata atttttgcct gatcctttct tttctctctc ttcgatctct ttcctgcatt 180  
 cttcaaactt tgttttgaat ttctgtgcat tctcagcatt caggaagcgg atgg 234

<210> 266  
 <211> 335  
 <212> DNA  
 <213> Homo sapiens

<400> 266

```
gtcctcatca tcccagtttg aggcagtgct ggagtgggga aggccgtctt agaccataga 60
ggttggaaga cgctgagaga tcatccagcc cagccccttg atgttacaga gcagaagaca 120
gatgccc aaa caggagaagg cacttgccca cggtcatacg gcaggttgcc aaaaaaccaa 180
gatggcagcc cttcctcagc gtgcctcact gccactccca gagccaggga gcccataaaa 240
accacatca tgtcttaaga gtatatctgg ctccctgacc agcaatcggc cctgggagcc 300
accaggtggg aaaagcgct ctgccagagt ccagg 335
```

<210> 267

<211> 619

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 69, 86, 119, 205, 352, 547, 580, 611

<223> n = A,T,C or G

<400> 267

```
tggagctctg acgaagggat cggggaggtg ctggagaagg aagactgcat gcaggccctg 60
agcgccana tttcatggg catgngtcc tcccagtacc aggccggct ggacatcng 120
cgcctcattg atgggcttg caacgcctgc atccgcttg tctacttctc tttggaggat 180
gagctcaaaa gcaagggtgt tgcanaaaa atgggcctgg agacaggctg gaactgccac 240
atctccctca caccatggt tgacatgct ggctccgaga tccccccctc cagccccagc 300
cacgcaggct cctgcatga tgacctgaat cagggtgtcc gagatgatgc anaagggtc 360
ctcctcatgg aggaggagg cactcggac ctcatcagct tccagcctac ggacagcgac 420
atccccagct tctggagga ctccaaccgg gccaaagctgc cccggggtat ccaccaagt 480
cggccccacc tgcagaacat tgacaacgtg cccctgctag tgcccccttt caccgaactgc 540
acccanaga ccatgtgtga gatgataaag atcatgcaan agtacgggga ggtgacctgc 600
tgccctgggca nctctgcca 619
```

<210> 268

<211> 147

<212> DNA

<213> Homo sapiens

<400> 268

```
cctataaccc agacaccagc atggacaaa ctcaattata ctgaattcag agacaaaatt 60
cagtgcact cttctaccac ttatttaggg ttctacagca tttcactgag cagacttagt 120
tttttgtttt tgttttacaa acctttt 147
```

<210> 269

<211> 325

<212> DNA

<213> Homo sapiens

<400> 269

```
ctgagctgta ggaatgggtt cttggtacac aagatagtat tggtgagcta gttttcgagc 60
tctgtgcaca agcactctgt aatcggggcc catgccactg tacaccaaac ctatatgctt 120
ggtaattggg tctactttgt gtacacttcg ctcatcatac agaatggatt tctgtttttt 180
ctcagttgct aataccacac catttgagc tttaattccc acggacgggg ctctccagc 240
tacagcagcc aaagcatatt caatctggac aagtttacca gacgggctga atgtagtcag 300
cgaaaagctg taccgcgct ccgcc 325
```

<210> 270  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 270  
 aaacatatgg taaattaccg agtgacacct ctgggctaga gacctctttt gaggggagtt 60  
 tgcaaaactac ggattcaatt tctttaacag ttatgaagtt ctttaaagaa cctgttttgt 120  
 attgggggggt tgtggtcacc tgtgcttttc tgagatttgg cccctacatc taagttgttg 180  
 aatgcatgtg tgtagagttg tttatgggtc ttccctttct tcttagaagg gtctatagta 240  
 atatccctcg ctttatccct agtagtacta atttgtgttt tcttacttct tgacaggcaa 300  
 acacatcaga gcataagtgg ttccataatgc caagctgacc tcccttgatc tctgtcttct 360  
 acaggatatt gacatgggac ttctttatta ccttttcagt tcaactgatac cttcaaatag 420  
 ctttattt 428

<210> 271  
 <211> 206  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 18, 21, 33, 118, 180  
 <223> n = A,T,C or G

<400> 271  
 cgtcccggag ccacggnng ncatggctgg canagcgctc tgcattgctgg ggctgggtcct 60  
 ggccttgctg tctccagct ctgctgagga gtacgtgggc ctgtctgcaa accagtgngc 120  
 cgtgccagcc aaggacaggg tggactgcgg ctacccccat gtcaccccca aggagtgcac 180  
 caaccggggc tgctgctttg actcca 206

<210> 272  
 <211> 83  
 <212> DNA  
 <213> Homo sapiens

<400> 272  
 ctggcttccc tgagaactca acaatgcctt ttctgaggg ccttctctga tcatccacaa 60  
 tgactacagc cctctctacc tgg 83

<210> 273  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<400> 273  
 ctggagaagg tgtgcagggg aaaccctgct gatgtcaccc aggccagggt gtctttctac 60  
 tgggacact cttcctttgg gatgtactgc atggtgttct tggcgtgta tgtgcaggca 120  
 cgactctgtt ggaagtgggc acggctgctg cgaccacag tccagttctt cctgggtggc 180  
 tttgccctct acgtgggcta caccgcgtg tctgattaca aacaccactg gagcgatgtc 240  
 cttgttggcc tctgcaggg ggcactggtg gctgccctca ctgtctgcta catctcagac 300  
 ttcttcaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360  
 agcctgtcac tgacgttgac cctgggcgag gctgaccaca accactatgg ataccgcac 420

tctctctctt gaggccggac cccgcccagg cagggagctg ctgtgagtcc ag 472

<210> 274

<211> 205

<212> DNA

<213> Homo sapiens

<400> 274

ccaggcggcc cgaggactta cggtcggcac ttctctgttc tcccggtgca gcgtgtggtg 60  
tcgcctgcat gggtcgtacc tggatgggtg gtccaccatc gacacggagg ggctggattt 120  
gtttctcagg caatcctgta ttttaatttt agatgtattt cctgaagcat atttttcata 180  
gaatgtagcg tgtaaatagc ttttt 205

<210> 275

<211> 308

<212> DNA

<213> Homo sapiens

<400> 275

ctctctgccc tccccaccga catcatgctc cagttccagc ttggatttac actgggcaac 60  
gtggttgga tgtatctggc tcagaactat gatataccaa acctggctaa aaaacttgaa 120  
gaaattaaaa aggacttgga tgccaagaag aaacccccta gtgcatgaga ctgcctccag 180  
cactgccttc aggatatact gattctactg ctcttgaggg cctcgtttac tatctgaacc 240  
aaaagctttt gttttcgtct ccagcctcag cacttctctt ctttgctaga cctgtggtt 300  
tttgcttt 308

<210> 276

<211> 201

<212> DNA

<213> Homo sapiens

<400> 276

aaattaactt tttcttgcaa aatattcatt tcattttttc caagaaaatc ttataaaggc 60  
aaaaataaaa ttttattttg gcaaagtca tgaagtcgat actggcagca tatggagtta 120  
gttaaaaaata gacaacaact gctagatata ttcaaaattc tatttttttt tctgagcata 180  
gtcaaagaga aattttcatt t 201

<210> 277

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 32

<223> n = A,T,C or G

<400> 277

aaaaaaaaag tattcagcac catttgtc tnggtcttcc agagtttggt cttaaagttt 60  
ctggaacttt cctgtctgta aagtaacagg aattactgag ctacattgga aagcctctct 120  
gggacaggca gtggggagtt aagcagtcata cataaaggaa tcagtgtaca ttcagcatgg 180  
tgacttgact acacaacaat ccttccct ctactgtagc tcaagagaga catgcttcta 240  
accactgagg tatgaggagt ctcagactgt tatttgctgt tagaattgggt cttcccagct 300  
aataacagta catctctggc acagatgcta ttggtcctta atgtcctgtg attttaggaa 360

```
<210> 278
<211> 264
<212> DNA
<213> Homo sapiens
```

```
<210> 279
<211> 414
<212> DNA
<213> Homo sapiens
```

```
<210> 280
<211> 262
<212> DNA
<213> Homo sapiens
```

```
<210> 281
<211> 349
<212> DNA
<213> Homo sapiens
```

```
<400> 281
ctgtgaccgc ggtgcatcag tggatatagt tgtgtctccc catgggggtt taacagttct 60
tgcccaagac cgttttctga taatggctgc agaaatggaa cagtcattctg gcacaggccc 120
agcagaatta actcagtttt ggaaagaagt tcccagaaac aaagtgatgg aacatagggtt 180
aagatgccat actgttgaaa gcagtaaacc aaacactctt acgttaaaag acaatgcttt 240
caatatgtca gataaaacca gtgaagatat atgtctacaa ctcagtcgtt tactagaaag 300
caataggaag cttgaagacc aagttcagcg ttgtatctgg ttccagcag 349
```

<210> 282  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 209  
 <223> n = A,T,C or G

<400> 282  
 aaacactaaa tgaagcttct cacaatttct aattataaac aaaaggctga aaacagtatg 60  
 ggaaacaaaag tttcaaaaaca aagaaaagtt gagtaaaagg tgccccctct atggctcatc 120  
 tgaaagaaac attttactca gagaggcaaa catttctgat ctaggagtaa gtttccact 180  
 cactttgcaa ggaccactc attctgcana aagacctaca agtctttctg gtctcaattg 240  
 caaagtacgt gaaaatgtgt atgaaagatc taaaagctaa atattagaat aaggctaatt 300  
 gaaatcaaaa ttgtgtgctg gtctaaatat acatcttcgg cttcttcctt tttagtaagt 360  
 atttttattt cagatgtatt t 381

<210> 283  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 283  
 aatatagctc ctccctaccc ccaacaatgg acctgcccc ttgcctccca gttccttgat 60  
 ctctctaggt tccacaactc tctttttcct tttagtttta ttccctccag ccaaacctct 120  
 cttattcaat attttgagcc aatgggggag ttatgtagat ttttttccct acacattagc 180  
 tggccccctt tatgaccaat gactcataag gcaagatgtg tggtagcatc ttgggacagg 240  
 cagcaggctt taatagggca gcctgggttg gtggaggcaa gcaaagctaa ttggcatgag 300  
 tgggaatcaa accccaggcc ctgggctcat tagcccatgg tcaaaaacaac tgagccagag 360  
 gaggtataataa tttgcccaag aatatcagta gttcctttat tagaagaaaa tggctgatat 420  
 ggaagttagg gaatctgaat tgccagagaa tcttggaag agtaataagc tcttagtctc 480  
 aacaaaaagt gttttttcat ctccagcgcg aaagggtgct atatgggaac aaagaagtat 540  
 ttt 543

<210> 284  
 <211> 147  
 <212> DNA  
 <213> Homo sapiens

<400> 284  
 aaactggtat tttatctttg attctccttc agccctcacc cctggttctc atctttcttg 60  
 atcaacatct tttcttgctt ctgtccctt ctctcatctc ttagctcccc tccaacctgg 120  
 ggggcagtgg tgtggagaag ccacagg 147

<210> 285  
 <211> 316  
 <212> DNA  
 <213> Homo sapiens

<400> 285  
 cggccgaggt ctggcttcac tctactccc tctctgctcg cagcacgtcg gccgccagct 60

```

ctttgatgtg ttcccaggcc cgctgcacat gggcagattc caccgtgcga gaacagatgg 120
caaagcgcag gacaaacttg tccctgaggt gacatggaac caagtggatt tttttggcac 180
tgtttattct ttgcagaaga gcttcattca ctttgttggg acccttttagc cgaaagcaga 240
caagccccag aatgacttcc acacagattt caaagcgggg atcctggcgc accagtgact 300
caaactcatg ggacag                                     316

```

```

<210> 286
<211> 322
<212> DNA
<213> Homo sapiens

```

```

<400> 286
cctggggagc ccttttagtg ggtgggacct caggcagacc cccaaaccaa agggagccag 60
atgcccaggt tcaagtcatt agtgatatgt ggcagggctg acagagaaat aatcctggag 120
gtctccaaag ctgctgggaa tggaatggcg atgaaaagcg caggagtggg cagggtgtgg 180
tgggtgatgg tggcctcact cagagtggac caaggcccca gtccttgcc caaaaccaa 240
gcccttgggc ccgaagtttt tagcataaca tcctttgcag taaatctcgc catccttgtc 300
tgccaggggtg gttgactcaa gg                                     322

```

```

<210> 287
<211> 364
<212> DNA
<213> Homo sapiens

```

```

<400> 287
ctgcccacgc tcaaaccaat tctggctgat atcgagtacc tgcaggacca gcacctcctg 60
ctcacagtca agtccatgga tggctatgaa tcctatgggg agtgtgtggt tgcactcaaa 120
tccatgatcg gcagcacggc ccaacagttc ctgaccttcc tatcccaccg tggcgaggag 180
acaggcaata tcagaggctc catgaagggt cgggtgcca cggagcgcct gggcaccctg 240
gagcggctct acgagtggat cagcattgat aaggatgagg caggagcaaa gagcaaagcc 300
ccctctgtgt cccgaggggag ccaggagccc aggtcaggga gccgcaagcc agccttcaca 360
gagg                                     364

```

```

<210> 288
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<400> 288
aaaattataa ctactcattc tttcttttagc cttagttaat ttgagcagaa gccacaacaa 60
gcaaaccaca ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc 120
cacactacta ccatttacag ttgtaggttt gtaatgtata attatgtaat gcagaaacta 180
gctttgactt gtgtaacgat gcactgtcaa agtaagcaaa gtaagaattg aaattccaca 240
ttcccagaat ttaacactca g                                     261

```

```

<210> 289
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<400> 289
ctgagtgtta aattctggga atgtggaatt tcaattctta ctttgcttac tttgacagtg 60
catcggtaca caagtcaaag ctagtttctg cattacataa ttatacatta caaacctaca 120
actgtaaatg gtagtagtgt ggaaacttgg gaagaggagt taatgtggat ttctgccaat 180

```



```
tctaaattta ttgtggtttg cttgttgtgg cttctgtca aattaactaa ggctaaagaa 240
agaatgagta gttataattt t 261
```

```
<210> 290
<211> 92
<212> DNA
<213> Homo sapiens
```

```
<400> 290
ccactacccg aacttacagg tgccaaaaga agaaagggtg taaacggaga ccacctatca 60
ctcatcagaa cctaggatca tcacattcct tt 92
```

```
<210> 291
<211> 287
<212> DNA
<213> Homo sapiens
```

```
<400> 291
ccatggctcc gtcaggggcc ccggtcacct ccgagtcact ctgttccttg actgtctttg 60
tgtttctgta cctcaaggca ctgaagctgg aggactctgt ccatgcctgt gtcaccctcg 120
tgtgggagcc tctgggctcg gcagggtccac atttcatgag ctgaggcgtg ggccagggcc 180
atctggaaaag ggaactcggc ttttcagaa cgtggtggat catctgtcgg gtgtgtggtg 240
aacacgttca gttcatcagg gcctacgctc cgggaagggg cccccag 287
```

```
<210> 292
<211> 270
<212> DNA
<213> Homo sapiens
```

```
<400> 292
ccattgtttc ctgctggcg aaggctcctt gaacatccct caccttctc tccgcctct 60
gccttctgct ggggtcaaagg tggccttttc tctccagcct tgaattgtc cctggtggct 120
tcccaagggc ccatctgctg gtacagtcca cacttccaca gccaagacc gagagggctt 180
tactgcccc aagcctctct cctgtgacct tgggattctg tcttggcaga atcctttgtc 240
agcggctctt actctgtcct tctgttttg 270
```

```
<210> 293
<211> 333
<212> DNA
<213> Homo sapiens
```

```
<400> 293
ccatgctcgt caacctggtg tccactgctt gctacgtctc cttcctcttc ctgggctgcg 60
aactggccc tgtggctggg gttactgttc cctatggaaa cagcacagca cctggctcag 120
ccttgagccc ctactgccc tgcaataata actgtgaatg ccaaaccgat tccttcactc 180
cagtgtgtgg ggcagatggc atcacctacc tgtctgacct ctttgtggtg tgcaacagca 240
cgaatctcac gggctgtgcg tgcctacca ccgtccctgc tgagaacgca accgtgggtc 300
ctggaaaatg cccagtcct ggggtccaag agg 333
```

```
<210> 294
<211> 123
<212> DNA
<213> Homo sapiens
```

<400> 294  
 ctgatacaaa tacagaaaac tctgcccatt atccaagaaa caaataatta agactaaaat 60  
 gcaagctgat gtgttgccagc attgtagggc cactaaatag ccactctgtga ttcgtggcaa 120  
 ttt 123

<210> 295  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 295  
 ctgcatacag acatttgttt aggtcatctg gattatcttg attgtcacca tggcaactat 60  
 ccacaaccag tgcctaggtg tgtgagaaga gtgatacaat aatactgtgg catggtcatt 120  
 tagctaatacc agtctaagcc taacagaaac cttttccatc aaagtttttc agagaataac 180  
 aacatctcat aagaggccag aggatggctt gtgcttaata tcacacctgt acagtagggc 240  
 agtgcttccc aggctgtctg cttacatttt agcttgtctt acggttacat atggtttttag 300  
 tatttttcatt t 311

<210> 296  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

<400> 296  
 ctgcggaaga tctgcaacca cccctacatg ttccagcaca tcgaggagtc cttttccgag 60  
 cacttggggg tcaactggcg cttgtgccaa gggctggacc tgtaccgagc ctcgggtaaa 120  
 tttgagcttc ttgatagaat tcttcccaaa ctccgagcaa ccaaccacaa agtgctgctg 180  
 ttctgcaaaa tgacctccct catgaccatc atggaagatt actttgcgta tcgcgggcttt 240  
 a 241

<210> 297  
 <211> 295  
 <212> DNA  
 <213> Homo sapiens

<400> 297  
 aaacacaaga tgaaaatact ctgttctgtc caaagcatca cctaattggtg tgaggcatct 60  
 cacttagctg tggagaagtc cttggaatta gatctcagaa agacagcttt aagacagtaa 120  
 aaccttttgg caatgggcta attgccttaa aagaagagtt ctacctgaaa gaccttgcag 180  
 gtggagaaat tgtcctacaa agattcttgg atatgttagt ggagataact gacatgggta 240  
 gctgtgggtc aaccaggaac tgtcaacaac ctgatctctg caaaaccagg atgga 295

<210> 298  
 <211> 347  
 <212> DNA  
 <213> Homo sapiens

<400> 298  
 ccaaaataaa gcttcaggca agaggcaaag atccagtgga atatgggaga atgggtggagg 60  
 accaacacct gctaccccag agagcttttc taaaaaaagc aagaaagcag tcatgagtgg 120  
 tattcacctt gcagaagaca cggaagggtac tgagtgttgg ccagagggac ttccagaagt 180  
 tgtaaagaaa gggtttgctg acatcccagc aggaaagact agcccatata tcttgcgaag 240  
 aacaaccatg gcaactcgga ccagcccccg cctggctgca cagaagttag cgctatcccc 300  
 actgagtctc ggcaaagaaa atcttgcaga gtcttccaaa ccaacag 347

<210> 299  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<400> 299  
 aaaaagtaaa catgaaaaca tcacgaattg taccatgatt caagaataac ttttgtaata 60  
 gaaaacacat gaccttttgc agtatagtgt gataccgaag taaaagtgaag agaaataaat 120  
 gcaggaaagt ttaagtggat gtaagttttt ataaggaaag taataagagg aggctgcttt 180  
 tgaaggtcct ttgatcttcc atgatgataa tatcgttgca aagttcttta acttgatttc 240  
 aagtaattag cagttgacca cttggttt 268

<210> 300  
 <211> 185  
 <212> DNA  
 <213> Homo sapiens

<400> 300  
 aaattggaga aggaagtttt cctgaagagc cagaatcctt gctaagtcatt ttagatccaa 60  
 ctgaccatct ttatttctgt caaaaatctt catcatgggt ccggtgtatt cttccagttt 120  
 agcctcagaa atggcctttc tgttgtgaag aaagaggctt cggaggaagt tgcggagctc 180  
 agcag 185

<210> 301  
 <211> 75  
 <212> DNA  
 <213> Homo sapiens

<400> 301  
 aaaattggaa agtgggataa gaaatctaaa gtaaccagct tatctttgaa acaatattat 60  
 tttgaaattg gcttt 75

<210> 302  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 159, 188, 212  
 <223> n = A,T,C or G

<400> 302  
 ccatgttctc tgaattgggt gcagaagaca agggcagagt ggctgcggcc cctattacct 60  
 ttgtagcagc cacatcagaa agcagaagaa aacagtattt ctgaaggcat tgtttgaggt 120  
 tgatctcagc actgaacgat ttcaagccct acgcaccana acagaaggag ggtggaggaa 180  
 gtgatcanag ggaacgagct gtaggtttgc anaaatgtgt gaaacaaaa tgatcactgc 240  
 ctacttg 247

<210> 303  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 303

```

ctgcttcaga ggaaatcact gaaaaataaa gaaaaacat ccatgcatgg ctgcatccag 60
tgtacctgta atcctgaaga aaaggctcta attccttcca tgctgaaatg ctagctttgg 120
tttcagagag agactttatt gcaactgtga ccaccgtcac tggtagcac tgctgttcgg 180
ccccagcgg acttaaaaga ctggaatgtg gtagtggcgg tcgttctcgg tcagcaggga 240
gatctccggc cagtccctga gaggtcctc tgggtagcag acttcaaagt ctctggagtt 300
aaacttgaac agtctgaaca cttttatctt tacttcaagg gagtatccaa gtataaacat 360
atcaatctgc tctagtccac atgtgtcggc tacagaattc aggtgattca tcatgaagct 420
caaaggatca gaggatgtct ccctggaaaa caggagtcta aaaagactgg gaatgacctt 480
tttagtcttc atttgttcat aaacttcagt gacttgatac agcatgatga acttt 535

```

&lt;210&gt; 304

&lt;211&gt; 522

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 304

```

ccgcgctcgg tctacaatca cgttttatta ttggctcgtc tagtcatggg atagagaagg 60
taaataagcaa aatagaaaga aaagggggaa aaggtagaag gcaaggggaa aactattggg 120
tttagatctt tatcctgggc ctgtcaatga tcaggtaatt ggaaggatca aaattaggcc 180
aaacttggtg attgggcca aattgaacca aagtttgtgt caagaagacc tggggcagag 240
atatgtgact aaatcatttg gaatatgcc agacccaag aatatttatg cccaacttga 300
atgctaacca gaagtcctt actgtagaag attgtaagg tgctattttt ttgccccgac 360
accaaaatat tgatgtattt tccaacacca attctccaat tctctgacac caactcgatg 420
ttcaacaatt cagttatatt ctgtcactaa ttctgcagc tatcagcagg cccacaggt 480
aaaggattca gtctcacaag attgcccccc caccacttc ag 522

```

&lt;210&gt; 305

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 305

```

cctaaagcgc tctcgtctga agctcaagg gtcacaatg atttgtttgt caaagttatt 60
gagtgcata ggcagttctc ctctctctc acctggtgc tgtgaggcat cgtctgaggc 120
agtggcctgg gctgcattgg aatgcctgt gaccgctgc tgcag 165

```

&lt;210&gt; 306

&lt;211&gt; 294

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 306

```

ctgcacctaa gacatggccc tggctaggcg ggaacagctc acagtagcga tacattcaca 60
ggacacagtt ggtgtccaga aaagggggct cagaacacag tttctacaca agcacttggc 120
accacacga cagagacgtc actcaagcag cacagccaca aatagtttac agcagctcat 180
gccggcctc cgcccatgct gggagactcc ctgaaagggt ggcacctgcc gtctatgagg 240
aggtgtctcc ctccatcatt aaccccaaac cacacaatgt gtgaggagag cagg 294

```

&lt;210&gt; 307

&lt;211&gt; 181

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 307

```
aaaaatccat gacaccttga tagaaattag agtttacaca aacaaaaaag gaaccttcga 60
tattgccagc agctataaag tgaacgtact gagaccgaca ggacagcaag aaggcatttg 120
cacatttata tctgacaccc gaccatactt tcagtcacca gaatatcttc tctccagatt 180
t                                                    181
```

<210> 308

<211> 179

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 138

<223> n = A,T,C or G

<400> 308

```
aaggctgagg actgctggga gctcagatca gcccgagct actggctcat gggcagccaa 60
aaaatactgg atctgctgaa cgaaggctca gcccgagatc tccgcagtct tcagcgcatt 120
ggcccgaaga aggcccanct aatcgtgggc tggcgggagc tccacggccc cttcagcca 179
```

<210> 309

<211> 129

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 28

<223> n = A,T,C or G

<400> 309

```
ctgcccgttt gcccgtagct gactcagntt cctcatcttc atctccatcc ttttccctcac 60
catcaccttc ttcttctctc tctcttctct cccacacctc ttctctttct tcgtctacct 120
cattgtcag                                                    129
```

<210> 310

<211> 390

<212> DNA

<213> Homo sapiens

<400> 310

```
tgaggctggg ggagagccgt ggtccctgag gatgggtcag agctaaactc cttcctggcc 60
tgagagtcag ctctctgccc tgtgtacttc ccgggccagg gctgccccta atctctgtag 120
gaaccgtggg atgtctgcat gttgcccctt tctcttttcc cctttcctgt cccaccatac 180
gagcacctcc agcctgaaca gaagctctta ctctttccta tttcagtgtt acctgtgtgc 240
ttgggtctgtt tgactttacg cccatctcag gacacttcog tagactgttt aggttccct 300
gtcaaataac agttaccac tccgtcccag ttttgttgcc ccagaaaggg atgttattat 360
ccttgggggc tcccagggca aggggttaagg                                                    390
```

<210> 311

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 127, 131, 154, 156, 192, 204, 227, 242, 271, 274, 297

<223> n = A,T,C or G

<400> 311

```
cctctctgtg ctgctgaagg cagatcgctt gtccacacc agctaccact cccaggcagt 60
gcatatccgc ctgttgagaa atgccgtgtc tagattgtgg acaagagcct gcgtgattat 120
gctatangga naaaaattct tcgagttcca cccnancctc tctaaacatt tggtcactc 180
aaaacaaaaa gncaccaatc ttantactgc tgaacttcat ttatgtnacc taacattaac 240
cntcgtagga aaaccaaata gccctctcgt ncangatatg ttgctaaagg actacntgt 300
tcaacacaac ggctccggtg tgtgaactcc tgtttggtg attcccctac totca 355
```

<210> 312

<211> 498

<212> DNA

<213> Homo sapiens

<400> 312

```
ccattctttt gaatctaate tattatcaat agcatcctcc ataatatctt tgataaaagg 60
tgtccaccga gagagctgaa aagtttcttc tgcagaccga tcctttctta acggtttgcc 120
ttgttgagat tggggaacaa tgggaacacc aaggttaactc cagttacgaa tcatgtcact 180
ctcattttct atctttacat tctggatcaa cctgtccaaa ttttcttcog tagttccatt 240
aatactgaag atataaagta gaattgctct tattttatca caattatcat gatttttggt 300
gagtagaact ggaaggagta ctgcgatgga atctttcacc ttctgtcctt ctgcatcagt 360
tccaagtgcc aggtcctggt cagttttgca gagcttttct atattaagct tgaacttatt 420
catgcaatct tctgctaagt taagatggac aacttgctta gtaatctggt ttcggaaata 480
gggcattctt ttcattcag 498
```

<210> 313

<211> 653

<212> DNA

<213> Homo sapiens

<400> 313

```
aaacttatca gattttttta agttaggtaa tttcaatcca cagtggctcc atatgggttaa 60
aaaaacaaaa acaaaaacgc atttaaggat acacgaagca gtgaaaacaa agccccagta 120
ttttcgctaa agtactggaa atacctgttt ctaaaaacag ctttatattt gtccactgcc 180
tagaatagct ctcacccaaa cctcaaaaat aagagcagat agatttttaga agcaagaaaa 240
ggtaaacagt gcccatatta tttgagactg gctctgctgc cctccctaag ccagtttaca 300
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<212> DNA

<213> Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;211&gt; 1633

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 316

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<212> DNA
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&lt;213&gt; Homo sapiens

&lt;400&gt; 318

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<211> 1814

<212> DNA

<213> Homo sapiens

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&lt;213&gt; Homo sapiens

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<211> 2280

<212> DNA

<213> Homo sapiens

<400> 321

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<211> 1398

<212> DNA

<213> Homo sapiens

<400> 322

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1398

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 <212> PRT  
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 35 40 45  
 Trp Lys Thr Val Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala  
 50 55 60  
 Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro  
 65 70 75 80  
 Ala Lys Gly Gly Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro  
 85 90 95  
 Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys  
 100 105 110  
 Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly  
 115 120 125  
 Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr  
 130 135 140  
 Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr

145		150		155		160									
Lys	Ser	Lys	Gly	Lys	Phe	Asp	Gly	Ala	Lys	Gly	Pro	Ala	Lys	Val	Ala
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Arg	Lys	Lys	Val	Glu	Glu	Glu	Asp	Glu	Glu	Gln	Glu	Glu	Glu	Glu	Glu
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&lt;210&gt; 325

&lt;211&gt; 263

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 325

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	50				55					60					
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Ser	Glu	Phe	Met	Glu	Cys	Asn	Leu	Asn	Glu	Leu	Val	Lys	His	Gly	Leu
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Ala	Asp	Glu	Pro	Met	Glu	His									
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&lt;210&gt; 326

&lt;211&gt; 539

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 326

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Ser	Gln	Tyr	Ser	Ser	Leu	Leu	Ser	Pro	Met	Ser	Val	Asn	Ala	Val	Met
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		195					200					205			
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Val	Glu	Lys	Ala	Lys	Ile	Gly	Leu	Ile	Gln	Phe	Cys	Leu	Ser	Ala	Pro
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Cys	Lys	Thr	Ile	Gly	Thr	Lys	Pro	Val	Ala	His	Ile	Asp	Gln	Phe	Thr
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Thr	Val	Thr	Ile	Val	Val	Arg	Gly	Ser	Asn	Lys	Leu	Val	Ile	Glu	Glu
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Ala	Glu	Arg	Ser	Ile	His	Asp	Ala	Leu	Cys	Val	Ile	Arg	Cys	Leu	Val



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 Tyr Cys Val Arg Ala Phe Ala Asp Ala Met Glu Val Ile Pro Ser Thr  
 450 455 460  
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 465 470 475 480  
 Arg Asn Arg His Ala Gln Gly Glu Lys Thr Ala Gly Ile Asn Val Arg  
 485 490 495  
 Lys Gly Gly Ile Ser Asn Ile Leu Glu Leu Val Val Gln Pro Leu  
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 Gly Pro Gly Leu Tyr Asp Pro Thr Thr Ile Met Asn Ala Asp Ile Leu  
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 <213> Homo sapiens

<400> 328  
 Met Pro Asn Phe Ser Gly Asn Trp Lys Ile Ile Arg Ser Glu Asn Phe  
 1 5 10 15  
 Glu Glu Leu Leu Lys Val Leu Gly Val Asn Val Met Leu Arg Lys Ile

<210> 329  
<211> 346  
<212> PRT  
<213> Homo sapiens

<400> 329

Met	Phe	Leu	Ser	Ile	Leu	Val	Ala	Leu	Cys	Leu	Trp	Leu	His	Leu	Ala
1				5					10					15	
Leu	Gly	Val	Arg	Gly	Ala	Pro	Cys	Glu	Ala	Val	Arg	Ile	Pro	Met	Cys
			20					25					30		
Arg	His	Met	Pro	Trp	Asn	Ile	Thr	Arg	Met	Pro	Asn	His	Leu	His	His
		35					40					45			
Ser	Thr	Gln	Glu	Asn	Ala	Ile	Leu	Ala	Ile	Glu	Gln	Tyr	Glu	Glu	Leu
	50					55					60				
Val	Asp	Val	Asn	Cys	Ser	Ala	Val	Leu	Arg	Phe	Phe	Phe	Cys	Ala	Met
65					70					75					80
Tyr	Ala	Pro	Ile	Cys	Thr	Leu	Glu	Phe	Leu	His	Asp	Pro	Ile	Lys	Pro
				85					90					95	
Cys	Lys	Ser	Val	Cys	Gln	Arg	Ala	Arg	Asp	Asp	Cys	Glu	Pro	Leu	Met
			100					105					110		
Lys	Met	Tyr	Asn	His	Ser	Trp	Pro	Glu	Ser	Leu	Ala	Cys	Asp	Glu	Leu
		115					120					125			
Pro	Val	Tyr	Asp	Arg	Gly	Val	Cys	Ile	Ser	Pro	Glu	Ala	Ile	Val	Thr
	130					135					140				
Asp	Leu	Pro	Glu	Asp	Val	Lys	Trp	Ile	Asp	Ile	Thr	Pro	Asp	Met	Met
145					150					155					160
Val	Gln	Glu	Arg	Pro	Leu	Asp	Val	Asp	Cys	Lys	Arg	Leu	Ser	Pro	Asp
				165					170					175	
Arg	Cys	Lys	Cys	Lys	Lys	Val	Lys	Pro	Thr	Leu	Ala	Thr	Tyr	Leu	Ser
			180					185					190		
Lys	Asn	Tyr	Ser	Tyr	Val	Ile	His	Ala	Lys	Ile	Lys	Ala	Val	Gln	Arg
		195					200					205			
Ser	Gly	Cys	Asn	Glu	Val	Thr	Thr	Val	Val	Asp	Val	Lys	Glu	Ile	Phe
	210					215					220				
Lys	Ser	Ser	Ser	Pro	Ile	Pro	Arg	Thr	Gln	Val	Pro	Leu	Ile	Thr	Asn
225					230					235					240
Ser	Ser	Cys	Gln	Cys	Pro	His	Ile	Leu	Pro	His	Gln	Asp	Val	Leu	Ile

				245					250					255			
Met	Cys	Tyr	Glu	Trp	Arg	Ser	Arg	Met	Met	Leu	Leu	Glu	Asn	Cys	Leu		
			260					265					270				
Val	Glu	Lys	Trp	Arg	Asp	Gln	Leu	Ser	Lys	Arg	Ser	Ile	Gln	Trp	Glu		
		275					280					285					
Glu	Arg	Leu	Gln	Glu	Gln	Arg	Arg	Thr	Val	Gln	Asp	Lys	Lys	Lys	Thr		
	290				295					300							
Ala	Gly	Arg	Thr	Ser	Arg	Ser	Asn	Pro	Pro	Lys	Pro	Lys	Gly	Lys	Pro		
305				310						315					320		
Pro	Ala	Pro	Lys	Pro	Ala	Ser	Pro	Lys	Lys	Asn	Ile	Lys	Thr	Arg	Ser		
			325						330					335			
Ala	Gln	Lys	Arg	Thr	Asn	Pro	Lys	Arg	Val								
		340						345									

<210> 330  
 <211> 826  
 <212> PRT  
 <213> Homo sapiens

<400> 330

Met	Glu	Gly	Ala	Gly	Gly	Ala	Asn	Asp	Lys	Lys	Lys	Ile	Ser	Ser	Glu		
1				5				10					15				
Arg	Arg	Lys	Glu	Lys	Ser	Arg	Asp	Ala	Ala	Arg	Ser	Arg	Arg	Ser	Lys		
		20					25					30					
Glu	Ser	Glu	Val	Phe	Tyr	Glu	Leu	Ala	His	Gln	Leu	Pro	Leu	Pro	His		
	35					40					45						
Asn	Val	Ser	Ser	His	Leu	Asp	Lys	Ala	Ser	Val	Met	Arg	Leu	Thr	Ile		
	50				55					60							
Ser	Tyr	Leu	Arg	Val	Arg	Lys	Leu	Leu	Asp	Ala	Gly	Asp	Leu	Asp	Ile		
65			70						75						80		
Glu	Asp	Asp	Met	Lys	Ala	Gln	Met	Asn	Cys	Phe	Tyr	Leu	Lys	Ala	Leu		
		85						90						95			
Asp	Gly	Phe	Val	Met	Val	Leu	Thr	Asp	Asp	Gly	Asp	Met	Ile	Tyr	Ile		
	100						105						110				
Ser	Asp	Asn	Val	Asn	Lys	Tyr	Met	Gly	Leu	Thr	Gln	Phe	Glu	Leu	Thr		
	115				120						125						
Gly	His	Ser	Val	Phe	Asp	Phe	Thr	His	Pro	Cys	Asp	His	Glu	Glu	Met		
	130			135					140								
Arg	Glu	Met	Leu	Thr	His	Arg	Asn	Gly	Leu	Val	Lys	Lys	Gly	Lys	Glu		
145			150					155							160		
Gln	Asn	Thr	Gln	Arg	Ser	Phe	Phe	Leu	Arg	Met	Lys	Cys	Thr	Leu	Thr		
		165						170						175			
Ser	Arg	Gly	Arg	Thr	Met	Asn	Ile	Lys	Ser	Ala	Thr	Trp	Lys	Val	Leu		
	180						185						190				
His	Cys	Thr	Gly	His	Ile	His	Val	Tyr	Asp	Thr	Asn	Ser	Asn	Gln	Pro		
	195				200						205						
Gln	Cys	Gly	Tyr	Lys	Lys	Pro	Pro	Met	Thr	Cys	Leu	Val	Leu	Ile	Cys		
	210				215				220								
Glu	Pro	Ile	Pro	His	Pro	Ser	Asn	Ile	Glu	Ile	Pro	Leu	Asp	Ser	Lys		
225			230					235							240		
Thr	Phe	Leu	Ser	Arg	His	Ser	Leu	Asp	Met	Lys	Phe	Ser	Tyr	Cys	Asp		
		245					250						255				
Glu	Arg	Ile	Thr	Glu	Leu	Met	Gly	Tyr	Glu	Pro	Glu	Glu	Leu	Leu	Gly		

			260					265				270			
Arg	Ser	Ile	Tyr	Glu	Tyr	Tyr	His	Ala	Leu	Asp	Ser	Asp	His	Leu	Thr
		275					280					285			
Lys	Thr	His	His	Asp	Met	Phe	Thr	Lys	Gly	Gln	Val	Thr	Thr	Gly	Gln
	290					295					300				
Tyr	Arg	Met	Leu	Ala	Lys	Arg	Gly	Gly	Tyr	Val	Trp	Val	Glu	Thr	Gln
305					310					315					320
Ala	Thr	Val	Ile	Tyr	Asn	Thr	Lys	Asn	Ser	Gln	Pro	Gln	Cys	Ile	Val
			325						330					335	
Cys	Val	Asn	Tyr	Val	Val	Ser	Gly	Ile	Ile	Gln	His	Asp	Leu	Ile	Phe
		340					345						350		
Ser	Leu	Gln	Thr	Glu	Cys	Val	Leu	Lys	Pro	Val	Glu	Ser	Ser	Asp	
	355					360					365				
Met	Lys	Met	Thr	Gln	Leu	Phe	Thr	Lys	Val	Glu	Ser	Glu	Asp	Thr	Ser
	370					375					380				
Ser	Leu	Phe	Asp	Lys	Leu	Lys	Lys	Glu	Pro	Asp	Ala	Leu	Thr	Leu	Leu
385					390					395					400
Ala	Pro	Ala	Ala	Gly	Asp	Thr	Ile	Ile	Ser	Leu	Asp	Phe	Gly	Ser	Asn
			405						410					415	
Asp	Thr	Glu	Thr	Asp	Asp	Gln	Gln	Leu	Glu	Glu	Val	Pro	Leu	Tyr	Asn
		420					425						430		
Asp	Val	Met	Leu	Pro	Ser	Pro	Asn	Glu	Lys	Leu	Gln	Asn	Ile	Asn	Leu
	435					440						445			
Ala	Met	Ser	Pro	Leu	Pro	Thr	Ala	Glu	Thr	Pro	Lys	Pro	Leu	Arg	Ser
	450					455					460				
Ser	Ala	Asp	Pro	Ala	Leu	Asn	Gln	Glu	Val	Ala	Leu	Lys	Leu	Glu	Pro
465					470					475					480
Asn	Pro	Glu	Ser	Leu	Glu	Leu	Ser	Phe	Thr	Met	Pro	Gln	Ile	Gln	Asp
		485						490						495	
Gln	Thr	Pro	Ser	Pro	Ser	Asp	Gly	Ser	Thr	Arg	Gln	Ser	Ser	Pro	Glu
		500					505						510		
Pro	Asn	Ser	Pro	Ser	Glu	Tyr	Cys	Phe	Tyr	Val	Asp	Ser	Asp	Met	Val
	515					520						525			
Asn	Glu	Phe	Lys	Leu	Glu	Leu	Val	Glu	Lys	Leu	Phe	Ala	Glu	Asp	Thr
	530					535					540				
Glu	Ala	Lys	Asn	Pro	Phe	Ser	Thr	Gln	Asp	Thr	Asp	Leu	Asp	Leu	Glu
545					550					555					560
Met	Leu	Ala	Pro	Tyr	Ile	Pro	Met	Asp	Asp	Asp	Phe	Gln	Leu	Arg	Ser
		565						570						575	
Phe	Asp	Gln	Leu	Ser	Pro	Leu	Glu	Ser	Ser	Ser	Ala	Ser	Pro	Glu	Ser
	580						585					590			
Ala	Ser	Pro	Gln	Ser	Thr	Val	Thr	Val	Phe	Gln	Gln	Thr	Gln	Ile	Gln
	595					600						605			
Glu	Pro	Thr	Ala	Asn	Ala	Thr	Thr	Thr	Thr	Ala	Thr	Thr	Asp	Glu	Leu
	610					615					620				
Lys	Thr	Val	Thr	Lys	Asp	Arg	Met	Glu	Asp	Ile	Lys	Ile	Leu	Ile	Ala
625					630					635					640
Ser	Pro	Ser	Pro	Thr	His	Ile	His	Lys	Glu	Thr	Thr	Ser	Ala	Thr	Ser
		645						650						655	
Ser	Pro	Tyr	Arg	Asp	Thr	Gln	Ser	Arg	Thr	Ala	Ser	Pro	Asn	Arg	Ala
	660							665				670			
Gly	Lys	Gly	Val	Ile	Glu	Gln	Thr	Glu	Lys	Ser	His	Pro	Arg	Ser	Pro
	675					680						685			
Asn	Val	Leu	Ser	Val	Ala	Leu	Ser	Gln	Arg	Thr	Thr	Val	Pro	Glu	Glu

```

      690              695              700
Glu Leu Asn Pro Lys Ile Leu Ala Leu Gln Asn Ala Gln Arg Lys Arg
705              710              715              720
Lys Met Glu His Asp Gly Ser Leu Phe Gln Ala Val Gly Ile Gly Thr
              725              730              735
Leu Leu Gln Gln Pro Asp Asp His Ala Ala Thr Thr Ser Leu Ser Trp
              740              745              750
Lys Arg Val Lys Gly Cys Lys Ser Ser Glu Gln Asn Gly Met Glu Gln
              755              760              765
Lys Thr Ile Ile Leu Ile Pro Ser Asp Leu Ala Cys Arg Leu Leu Gly
              770              775              780
Gln Ser Met Asp Glu Ser Gly Leu Pro Gln Leu Thr Ser Tyr Asp Cys
785              790              795              800
Glu Val Asn Ala Pro Ile Gln Gly Ser Arg Asn Leu Leu Gln Gly Glu
              805              810              815
Glu Leu Leu Arg Ala Leu Asp Gln Val Asn
              820              825

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<210> 331
<211> 92
<212> PRT
<213> Homo sapiens

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```

<400> 331
Met Ala Tyr Arg Gly Gln Gly Gln Lys Val Gln Lys Val Met Val Gln
 1              5              10              15
Pro Ile Asn Leu Ile Phe Arg Tyr Leu Gln Asn Arg Ser Arg Ile Gln
              20              25              30
Val Trp Leu Tyr Glu Gln Val Asn Met Arg Ile Glu Gly Cys Ile Ile
              35              40              45
Gly Phe Asp Glu Tyr Met Asn Leu Val Leu Asp Asp Ala Glu Glu Ile
              50              55              60
His Ser Lys Thr Lys Ser Arg Lys Gln Leu Gly Arg Ile Met Leu Lys
65              70              75              80
Gly Asp Asn Ile Thr Leu Leu Gln Ser Val Ser Asn
              85              90

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<210> 332
<211> 235
<212> PRT
<213> Homo sapiens

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```

<400> 332
Met Asp Pro Ala Arg Pro Leu Gly Leu Ser Ile Leu Leu Leu Phe Leu
 1              5              10              15
Thr Glu Ala Ala Leu Gly Asp Ala Ala Gln Glu Pro Thr Gly Asn Asn
              20              25              30
Ala Glu Ile Cys Leu Leu Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu
              35              40              45
Leu Leu Arg Tyr Tyr Tyr Asp Arg Tyr Thr Gln Ser Cys Arg Gln Phe
              50              55              60
Leu Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu

```

65					70					75					80
Ala	Cys	Asp	Asp	Ala	Cys	Trp	Arg	Ile	Glu	Lys	Val	Pro	Lys	Val	Cys
				85					90					95	
Arg	Leu	Gln	Val	Ser	Val	Asp	Asp	Gln	Cys	Glu	Gly	Ser	Thr	Glu	Lys
			100					105					110		
Tyr	Phe	Phe	Asn	Leu	Ser	Ser	Met	Thr	Cys	Glu	Lys	Phe	Phe	Ser	Gly
		115					120					125			
Gly	Cys	His	Arg	Asn	Arg	Ile	Glu	Asn	Arg	Phe	Pro	Asp	Glu	Ala	Thr
	130					135					140				
Cys	Met	Gly	Phe	Cys	Ala	Pro	Lys	Lys	Ile	Pro	Ser	Phe	Cys	Tyr	Ser
145					150					155					160
Pro	Lys	Asp	Glu	Gly	Leu	Cys	Ser	Ala	Asn	Val	Thr	Arg	Tyr	Tyr	Phe
				165					170					175	
Asn	Pro	Arg	Tyr	Arg	Thr	Cys	Asp	Ala	Phe	Thr	Tyr	Thr	Gly	Cys	Gly
			180					185					190		
Gly	Asn	Asp	Asn	Asn	Phe	Val	Ser	Arg	Glu	Asp	Cys	Lys	Arg	Ala	Cys
		195					200					205			
Ala	Lys	Ala	Leu	Lys	Lys	Lys	Lys	Lys	Met	Pro	Lys	Leu	Arg	Phe	Ala
	210					215					220				
Ser	Arg	Ile	Arg	Lys	Ile	Arg	Lys	Lys	Gln	Phe					
225					230					235					

&lt;210&gt; 333

&lt;211&gt; 291

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 333

Met	Gln	Arg	Ala	Arg	Pro	Thr	Leu	Trp	Ala	Ala	Ala	Leu	Thr	Leu	Leu
1				5					10					15	
Val	Leu	Leu	Arg	Gly	Pro	Pro	Val	Ala	Arg	Ala	Gly	Ala	Ser	Ser	Gly
			20					25				30			
Gly	Leu	Gly	Pro	Val	Val	Arg	Cys	Glu	Pro	Cys	Asp	Ala	Arg	Ala	Leu
		35					40					45			
Ala	Gln	Cys	Ala	Pro	Pro	Pro	Ala	Val	Cys	Ala	Glu	Leu	Val	Arg	Glu
	50					55					60				
Pro	Gly	Cys	Gly	Cys	Cys	Leu	Thr	Cys	Ala	Leu	Ser	Glu	Gly	Gln	Pro
65					70				75					80	
Cys	Gly	Ile	Tyr	Thr	Glu	Arg	Cys	Gly	Ser	Gly	Leu	Arg	Cys	Gln	Pro
			85						90					95	
Ser	Pro	Asp	Glu	Ala	Arg	Pro	Leu	Gln	Ala	Leu	Leu	Asp	Gly	Arg	Gly
		100						105					110		
Leu	Cys	Val	Asn	Ala	Ser	Ala	Val	Ser	Arg	Leu	Arg	Ala	Tyr	Leu	Leu
		115					120					125			
Pro	Ala	Pro	Pro	Ala	Pro	Gly	Asn	Ala	Ser	Glu	Ser	Glu	Glu	Asp	Arg
	130					135						140			
Ser	Ala	Gly	Ser	Val	Glu	Ser	Pro	Ser	Val	Ser	Ser	Thr	His	Arg	Val
145					150					155				160	
Ser	Asp	Pro	Lys	Phe	His	Pro	Leu	His	Ser	Lys	Ile	Ile	Ile	Ile	Lys
			165						170					175	
Lys	Gly	His	Ala	Lys	Asp	Ser	Gln	Arg	Tyr	Lys	Val	Asp	Tyr	Glu	Ser
			180					185					190		
Gln	Ser	Thr	Asp	Thr	Gln	Asn	Phe	Ser	Ser	Glu	Ser	Lys	Arg	Glu	Thr

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<210> 334
<211> 582
<212> PRT
<213> Homo sapiens
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<400> 334															
Glu 1	Ser	Lys	Gly	Ala 5	Ser	Ser	Cys	Arg	Leu 10	Leu	Phe	Cys	Leu 15	Leu	Ile
Ser	Ala	Thr	Val 20	Phe	Arg	Pro	Gly	Leu 25	Gly	Trp	Tyr	Thr	Val 30	Asn	Ser
Ala	Tyr	Gly 35	Asp	Thr	Ile	Ile	Ile 40	Pro	Cys	Arg	Leu	Asp 45	Val	Pro	Gln
Asn	Leu 50	Met	Phe	Gly	Lys	Trp 55	Lys	Tyr	Glu	Lys	Pro 60	Asp	Gly	Ser	Pro
Val 65	Phe	Ile	Ala	Phe	Arg	Ser 70	Ser	Thr	Lys	Lys 75	Ser	Val	Gln	Tyr	Asp 80
Asp	Val	Pro	Glu	Tyr 85	Lys	Asp	Arg	Leu	Asn 90	Leu	Ser	Glu	Asn 95	Tyr	Thr
Leu	Ser	Ile	Ser 100	Asn	Ala	Arg	Ile	Ser 105	Asp	Glu	Lys	Arg	Phe 110	Val	Cys
Met	Leu	Val 115	Thr	Glu	Asp	Asn 120	Val	Phe	Glu	Ala	Pro	Thr	Ile 125	Val	Lys
Val	Phe 130	Lys	Gln	Pro	Ser	Lys 135	Pro	Glu	Ile	Val	Ser	Lys 140	Ala	Leu	Phe
Leu 145	Glu	Thr	Glu	Gln 150	Leu	Lys	Lys	Leu	Gly	Asp 155	Cys	Ile	Ser	Glu	Asp 160
Ser	Tyr	Pro	Asp	Gly 165	Asn	Ile	Thr	Trp	Tyr 170	Arg	Asn	Gly	Lys 175	Val	Leu
His	Pro	Leu	Glu 180	Gly	Ala	Val	Val 185	Ile	Ile	Phe	Lys	Lys 190	Glu	Met	Asp
Pro	Val	Thr 195	Gln	Leu	Tyr	Thr	Met 200	Thr	Ser	Thr	Leu	Glu 205	Tyr	Lys	Thr
Thr	Lys 210	Ala	Asp	Ile	Gln	Met 215	Pro	Phe	Thr	Cys	Ser 220	Val	Thr	Tyr	Tyr
Gly 225	Pro	Ser	Gly	Gln 230	Lys	Thr	Ile	His	Ser	Glu 235	Gln	Ala	Val	Phe	Asp 240
Ile	Tyr	Tyr	Pro	Thr 245	Glu	Gln	Val	Thr	Ile 250	Gln	Val	Leu	Pro	Pro	Lys
Asn	Ala	Ile	Lys	Glu	Gly	Asp	Asn	Ile	Thr	Leu	Lys	Cys	Leu	Gly	Asn

```

      260      265      270
Gly Asn Pro Pro Pro Glu Glu Phe Leu Phe Tyr Leu Pro Gly Gln Pro
      275      280      285
Glu Gly Ile Arg Ser Ser Asn Thr Tyr Thr Leu Thr Asp Val Arg Arg
      290      295      300
Asn Ala Thr Gly Asp Tyr Lys Cys Ser Leu Ile Asp Lys Lys Ser Met
305      310      315      320
Ile Ala Ser Thr Ala Ile Thr Val His Tyr Leu Asp Leu Ser Leu Asn
      325      330      335
Pro Ser Gly Glu Val Thr Arg Gln Ile Gly Asp Ala Leu Pro Val Ser
      340      345      350
Cys Thr Ile Ser Ala Ser Arg Asn Ala Thr Val Val Trp Met Lys Asp
      355      360      365
Asn Ile Arg Leu Arg Ser Ser Pro Ser Phe Ser Ser Leu His Tyr Gln
      370      375      380
Asp Ala Gly Asn Tyr Val Cys Glu Thr Ala Leu Gln Glu Val Glu Gly
385      390      395      400
Leu Lys Lys Arg Glu Ser Leu Thr Leu Ile Val Glu Gly Lys Pro Gln
      405      410      415
Ile Lys Met Thr Lys Lys Thr Asp Pro Ser Gly Leu Ser Lys Thr Ile
      420      425      430
Ile Cys His Val Glu Gly Phe Pro Lys Pro Ala Ile Gln Trp Thr Ile
      435      440      445
Thr Gly Ser Gly Ser Val Ile Asn Gln Thr Glu Glu Ser Pro Tyr Ile
      450      455      460
Asn Gly Arg Tyr Tyr Ser Lys Ile Ile Ile Ser Pro Glu Glu Asn Val
465      470      475      480
Thr Leu Thr Cys Thr Ala Glu Asn Gln Leu Glu Arg Thr Val Asn Ser
      485      490      495
Leu Asn Val Ser Ala Ile Ser Ile Pro Glu His Asp Glu Ala Asp Glu
      500      505      510
Ile Ser Asp Glu Asn Arg Glu Lys Val Asn Asp Gln Ala Lys Leu Ile
      515      520      525
Val Gly Ile Val Val Gly Leu Leu Leu Ala Ala Leu Val Ala Gly Val
      530      535      540
Val Tyr Trp Leu Tyr Met Lys Lys Ser Lys Thr Ala Ser Lys His Val
545      550      555      560
Asn Lys Asp Leu Gly Asn Met Glu Glu Asn Lys Lys Leu Glu Glu Asn
      565      570      575
Asn His Lys Thr Glu Ala
      580

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<210> 335  
 <211> 709  
 <212> PRT  
 <213> Homo sapiens

<400> 335  
 Met Ala Glu Val Glu Asp Gln Ala Ala Arg Asp Met Lys Arg Leu Glu  
 1 5 10 15  
 Glu Lys Asp Lys Glu Arg Lys Asn Val Lys Gly Ile Arg Asp Asp Ile  
 20 25 30  
 Glu Glu Glu Asp Asp Gln Glu Ala Tyr Phe Arg Tyr Met Ala Glu Asn



		35					40					45				
Pro	Thr	Ala	Gly	Val	Val	Gln	Glu	Glu	Glu	Glu	Asp	Asn	Leu	Glu	Tyr	
	50					55					60					
Asp	Ser	Asp	Gly	Asn	Pro	Ile	Ala	Pro	Thr	Lys	Lys	Ile	Ile	Asp	Pro	
65					70					75					80	
Leu	Pro	Pro	Ile	Asp	His	Ser	Glu	Ile	Asp	Tyr	Pro	Pro	Phe	Glu	Lys	
				85					90					95		
Asn	Phe	Tyr	Asn	Glu	His	Glu	Glu	Ile	Thr	Asn	Leu	Thr	Pro	Gln	Gln	
			100					105					110			
Leu	Ile	Asp	Leu	Arg	His	Lys	Leu	Asn	Leu	Arg	Val	Ser	Gly	Ala	Ala	
		115					120					125				
Pro	Pro	Arg	Pro	Gly	Ser	Ser	Phe	Ala	His	Phe	Gly	Phe	Asp	Glu	Gln	
	130					135					140					
Leu	Met	His	Gln	Ile	Arg	Lys	Ser	Glu	Tyr	Thr	Gln	Pro	Thr	Pro	Ile	
145					150					155					160	
Gln	Cys	Gln	Gly	Val	Pro	Val	Ala	Leu	Ser	Gly	Arg	Asp	Met	Ile	Gly	
				165					170					175		
Ile	Ala	Lys	Thr	Gly	Ser	Gly	Lys	Thr	Ala	Ala	Phe	Ile	Trp	Pro	Met	
			180					185					190			
Leu	Ile	His	Ile	Met	Asp	Gln	Lys	Glu	Leu	Glu	Pro	Gly	Asp	Gly	Pro	
		195					200					205				
Ile	Ala	Val	Ile	Val	Cys	Pro	Thr	Arg	Glu	Leu	Cys	Gln	Gln	Ile	His	
	210					215					220					
Ala	Glu	Cys	Lys	Arg	Phe	Gly	Lys	Ala	Tyr	Asn	Leu	Arg	Ser	Val	Ala	
225					230					235					240	
Val	Tyr	Gly	Gly	Gly	Ser	Met	Trp	Glu	Gln	Ala	Lys	Ala	Leu	Gln	Glu	
				245					250					255		
Gly	Ala	Glu	Ile	Val	Val	Cys	Thr	Pro	Gly	Arg	Leu	Ile	Asp	His	Val	
			260					265					270			
Lys	Lys	Lys	Ala	Thr	Asn	Leu	Gln	Arg	Val	Ser	Tyr	Leu	Val	Phe	Asp	
		275					280					285				
Glu	Ala	Asp	Arg	Met	Phe	Asp	Met	Gly	Phe	Glu	Tyr	Gln	Val	Arg	Ser	
	290					295					300					
Ile	Ala	Ser	His	Val	Arg	Pro	Asp	Arg	Gln	Thr	Leu	Leu	Phe	Ser	Ala	
305					310					315					320	
Thr	Phe	Arg	Lys	Lys	Ile	Glu	Lys	Leu	Ala	Arg	Asp	Ile	Leu	Ile	Asp	
				325					330					335		
Pro	Ile	Arg	Val	Val	Gln	Gly	Asp	Ile	Gly	Glu	Ala	Asn	Glu	Asp	Val	
			340					345					350			
Thr	Gln	Ile	Val	Glu	Ile	Leu	His	Ser	Gly	Pro	Ser	Lys	Trp	Asn	Trp	
		355					360					365				
Leu	Thr	Arg	Arg	Leu	Val	Glu	Phe	Thr	Ser	Ser	Gly	Ser	Val	Leu	Leu	
	370					375					380					
Phe	Val	Thr	Lys	Lys	Ala	Asn	Ala	Glu	Glu	Leu	Ala	Asn	Asn	Leu	Lys	
385					390					395						

```

465          470          475          480
Thr Leu Leu Thr Pro Lys Asp Ser Asn Phe Ala Gly Asp Leu Val Arg
          485          490          495
Asn Leu Glu Gly Ala Asn Gln His Val Ser Lys Glu Leu Leu Asp Leu
          500          505          510
Ala Met Gln Asn Ala Trp Phe Arg Lys Ser Arg Phe Lys Gly Gly Lys
          515          520          525
Gly Lys Lys Leu Asn Ile Gly Gly Gly Gly Leu Gly Tyr Arg Glu Arg
          530          535          540
Pro Gly Leu Gly Ser Glu Asn Met Asp Arg Gly Asn Asn Asn Val Met
545          550          555          560
Ser Asn Tyr Glu Ala Tyr Lys Pro Ser Thr Gly Ala Met Gly Asp Arg
          565          570          575
Leu Thr Ala Met Lys Ala Ala Phe Gln Ser Gln Tyr Lys Ser His Phe
          580          585          590
Val Ala Ala Ser Leu Ser Asn Gln Lys Ala Gly Ser Ser Ala Ala Gly
          595          600          605
Ala Ser Gly Trp Thr Ser Ala Gly Ser Leu Asn Ser Val Pro Thr Asn
          610          615          620
Ser Ala Gln Gln Gly His Asn Ser Pro Asp Ser Pro Val Thr Ser Ala
625          630          635          640
Ala Lys Gly Ile Pro Gly Phe Gly Asn Thr Gly Asn Ile Ser Gly Ala
          645          650          655
Pro Val Thr Tyr Pro Ser Ala Gly Ala Gln Gly Val Asn Asn Thr Ala
          660          665          670
Ser Gly Asn Asn Ser Arg Glu Gly Thr Gly Gly Ser Asn Gly Lys Arg
          675          680          685
Glu Arg Tyr Thr Glu Asn Arg Gly Ser Ser Pro Ser Gln Ser Arg Arg
690          695          700
Asp Trp Gln Ser Ala
705

```

<210> 336

<211> 480

<212> PRT

<213> Homo sapiens

<400> 336

```

Met Ile Arg Ala Ala Pro Pro Pro Leu Phe Leu Leu Leu Leu Leu
 1          5          10          15
Leu Leu Leu Val Ser Trp Ala Ser Arg Gly Glu Ala Ala Pro Asp Gln
20          25          30
Asp Glu Ile Gln Arg Leu Pro Gly Leu Ala Lys Gln Pro Ser Phe Arg
35          40          45
Gln Tyr Ser Gly Tyr Leu Lys Ser Ser Gly Ser Lys His Leu His Tyr
50          55          60
Trp Phe Val Glu Ser Gln Lys Asp Pro Glu Asn Ser Pro Val Val Leu
65          70          75          80
Trp Leu Asn Gly Gly Pro Gly Cys Ser Ser Leu Asp Gly Leu Leu Thr
85          90          95
Glu His Gly Pro Phe Leu Val Gln Pro Asp Gly Val Thr Leu Glu Tyr
100         105         110
Asn Pro Tyr Ser Trp Asn Leu Ile Ala Asn Val Leu Tyr Leu Glu Ser

```

Pro	Ala	Gly	Val	Gly	Phe	Ser	Tyr	Ser	Asp	Asp	Lys	Phe	Tyr	Ala	Thr
130						135					140				
Asn	Asp	Thr	Glu	Val	Ala	Gln	Ser	Asn	Phe	Glu	Ala	Leu	Gln	Asp	Phe
145					150					155					160
Phe	Arg	Leu	Phe	Pro	Glu	Tyr	Lys	Asn	Asn	Lys	Leu	Phe	Leu	Thr	Gly
				165					170					175	
Glu	Ser	Tyr	Ala	Gly	Ile	Tyr	Ile	Pro	Thr	Leu	Ala	Val	Leu	Val	Met
			180					185					190		
Gln	Asp	Pro	Ser	Met	Asn	Leu	Gln	Gly	Leu	Ala	Val	Gly	Asn	Gly	Leu
	195					200						205			
Ser	Ser	Tyr	Glu	Gln	Asn	Asp	Asn	Ser	Leu	Val	Tyr	Phe	Ala	Tyr	Tyr
	210				215						220				
His	Gly	Leu	Leu	Gly	Asn	Arg	Leu	Trp	Ser	Ser	Leu	Gln	Thr	His	Cys
225					230					235					240
Cys	Ser	Gln	Asn	Lys	Cys	Asn	Phe	Tyr	Asp	Asn	Lys	Asp	Leu	Glu	Cys
			245						250					255	
Val	Thr	Asn	Leu	Gln	Glu	Val	Ala	Arg	Ile	Val	Gly	Asn	Ser	Gly	Leu
		260					265						270		
Asn	Ile	Tyr	Asn	Leu	Tyr	Ala	Pro	Cys	Ala	Gly	Gly	Val	Pro	Ser	His
	275					280						285			
Phe	Arg	Tyr	Glu	Lys	Asp	Thr	Val	Val	Val	Gln	Asp	Leu	Gly	Asn	Ile
	290				295						300				
Phe	Thr	Arg	Leu	Pro	Leu	Lys	Arg	Met	Trp	His	Gln	Ala	Leu	Leu	Arg
305				310						315					320
Ser	Gly	Asp	Lys	Val	Arg	Met	Asp	Pro	Pro	Cys	Thr	Asn	Thr	Thr	Ala
			325						330					335	
Ala	Ser	Thr	Tyr	Leu	Asn	Asn	Pro	Tyr	Val	Arg	Lys	Ala	Leu	Asn	Ile
		340					345						350		
Pro	Glu	Gln	Leu	Pro	Gln	Trp	Asp	Met	Cys	Asn	Phe	Leu	Val	Asn	Leu
	355					360						365			
Gln	Tyr	Arg	Arg	Leu	Tyr	Arg	Ser	Met	Asn	Ser	Gln	Tyr	Leu	Lys	Leu
	370				375						380				
Leu	Ser	Ser	Gln	Lys	Tyr	Gln	Ile	Leu	Leu	Tyr	Asn	Gly	Asp	Val	Asp
385				390						395					400
Met	Ala	Cys	Asn	Phe	Met	Gly	Asp	Glu	Trp	Phe	Val	Asp	Ser	Leu	Asn
			405						410					415	
Gln	Lys	Met	Glu	Val	Gln	Arg	Arg	Pro	Trp	Leu	Val	Lys	Tyr	Gly	Asp
		420					425						430		
Ser	Gly	Glu	Gln	Ile	Ala	Gly	Phe	Val	Lys	Glu	Phe	Ser	His	Ile	Ala
	435				440							445			
Phe	Leu	Thr	Ile	Lys	Gly	Ala	Gly	His	Met	Val	Pro	Thr	Asp	Lys	Pro
	450				455						460				
Leu	Ala	Ala	Phe	Thr	Met	Phe	Ser	Arg	Phe	Leu	Asn	Lys	Gln	Pro	Tyr
465				470						475					480

&lt;210&gt; 337

&lt;211&gt; 543

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 337

Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile

1	5	10	15
Ser Asp Pro Phe Gly Ser Phe Pro His Ser Pro Thr Met Asp Asn Tyr			
20	25	30	
Pro Lys Leu Glu Glu Met Met Leu Leu Ser Asn Gly Ala Pro Gln Phe			
35	40	45	
Leu Gly Ala Ala Gly Ala Pro Glu Gly Ser Gly Ser Asn Ser Ser Ser			
50	55	60	
Ser Ser Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Asn Ser Ser			
65	70	75	80
Ser Ser Ser Ser Thr Phe Asn Pro Gln Ala Asp Thr Gly Glu Gln Pro			
85	90	95	
Tyr Glu His Leu Thr Ala Glu Ser Phe Pro Asp Ile Ser Leu Asn Asn			
100	105	110	
Glu Lys Val Leu Val Glu Thr Ser Tyr Pro Ser Gln Thr Thr Arg Leu			
115	120	125	
Pro Pro Ile Thr Tyr Thr Gly Arg Phe Ser Leu Glu Pro Ala Pro Asn			
130	135	140	
Ser Gly Asn Thr Leu Trp Pro Glu Pro Leu Phe Ser Leu Val Ser Gly			
145	150	155	160
Leu Val Ser Met Thr Asn Pro Pro Ala Ser Ser Ser Ser Ala Pro Ser			
165	170	175	
Pro Ala Ala Ser Ser Ala Ser Ala Ser Gln Ser Pro Pro Leu Ser Cys			
180	185	190	
Ala Val Pro Ser Asn Asp Ser Ser Pro Ile Tyr Ser Ala Ala Pro Thr			
195	200	205	
Phe Pro Thr Pro Asn Thr Asp Ile Phe Pro Glu Pro Gln Ser Gln Ala			
210	215	220	
Phe Pro Gly Ser Ala Gly Thr Ala Leu Gln Tyr Pro Pro Ala Tyr			
225	230	235	240
Pro Ala Ala Lys Gly Gly Phe Gln Val Pro Met Ile Pro Asp Tyr Leu			
245	250	255	
Phe Pro Gln Gln Gln Gly Asp Leu Gly Leu Gly Thr Pro Asp Gln Lys			
260	265	270	
Pro Phe Gln Gly Leu Glu Ser Arg Thr Gln Gln Pro Ser Leu Thr Pro			
275	280	285	
Leu Ser Thr Ile Lys Ala Phe Ala Thr Gln Ser Gly Ser Gln Asp Leu			
290	295	300	
Lys Ala Leu Asn Thr Ser Tyr Gln Ser Gln Leu Ile Lys Pro Ser Arg			
305	310	315	320
Met Arg Lys Tyr Pro Asn Arg Pro Ser Lys Thr Pro Pro His Glu Arg			
325	330	335	
Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser			
340	345	350	
Asp Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro Phe			
355	360	365	
Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu Thr			
370	375	380	
Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys Asp Ile			
385	390	395	400
Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg Lys Arg His Thr Lys			
405	410	415	
Ile His Leu Arg Gln Lys Asp Lys Lys Ala Asp Lys Ser Val Val Ala			
420	425	430	
Ser Ser Ala Thr Ser Ser Leu Ser Ser Tyr Pro Ser Pro Val Ala Thr			

```
<210> 338
<211> 148
<212> PRT
<213> Homo sapiens
```

```
<210> 339
<211> 196
<212> PRT
<213> Homo sapiens
```

```

<400> 339
Met  Pro  Gly  Met  Phe  Phe  Ser  Ala  Asn  Pro  Lys  Glu  Leu  Lys  Gly  Thr
  1              5              10              15
Thr  His  Ser  Leu  Leu  Asp  Asp  Lys  Met  Gln  Lys  Arg  Arg  Pro  Lys  Thr
              20              25              30
Phe  Gly  Met  Asp  Met  Lys  Ala  Tyr  Leu  Arg  Ser  Met  Ile  Pro  His  Leu

```

```

      35              40              45
Glu Ser Gly Met Lys Ser Ser Lys Ser Lys Asp Val Leu Ser Ala Ala
  50              55              60
Glu Val Met Gln Trp Ser Gln Ser Leu Glu Lys Leu Leu Ala Asn Gln
  65              70              75              80
Thr Gly Gln Asn Val Phe Gly Ser Phe Leu Lys Ser Glu Phe Ser Glu
      85              90              95
Glu Asn Ile Glu Phe Trp Leu Ala Cys Glu Asp Tyr Lys Lys Thr Glu
      100              105              110
Ser Asp Leu Leu Pro Cys Lys Ala Glu Glu Ile Tyr Lys Ala Phe Val
      115              120              125
His Ser Asp Ala Ala Lys Gln Ile Asn Ile Asp Phe Arg Thr Arg Glu
      130              135              140
Ser Thr Ala Lys Lys Ile Lys Ala Pro Thr Pro Thr Cys Phe Asp Glu
      145              150              155              160
Ala Gln Lys Val Ile Tyr Thr Leu Met Glu Lys Asp Ser Tyr Pro Arg
      165              170              175
Phe Leu Lys Ser Asp Ile Tyr Leu Asn Leu Leu Asn Asp Leu Gln Ala
      180              185              190
Asn Ser Leu Lys
      195

```

```

<210> 340
<211> 316
<212> PRT
<213> Homo sapiens

```

```

<400> 340
Met Ala Thr Phe Val Glu Leu Ser Thr Lys Ala Lys Met Pro Ile Val
  1              5              10              15
Gly Leu Gly Thr Trp Lys Ser Pro Leu Gly Lys Val Lys Glu Ala Val
      20              25              30
Lys Val Ala Ile Asp Ala Gly Tyr Arg His Ile Asp Cys Ala Tyr Val
      35              40              45
Tyr Gln Asn Glu His Glu Val Gly Glu Ala Ile Gln Glu Lys Ile Gln
      50              55              60
Glu Lys Ala Val Lys Arg Glu Asp Leu Phe Ile Val Ser Lys Leu Trp
      65              70              75              80
Pro Thr Phe Phe Glu Arg Pro Leu Val Arg Lys Ala Phe Glu Lys Thr
      85              90              95
Leu Lys Asp Leu Lys Leu Ser Tyr Leu Asp Val Tyr Leu Ile His Trp
      100              105              110
Pro Gln Gly Phe Lys Ser Gly Asp Asp Leu Phe Pro Lys Asp Asp Lys
      115              120              125
Gly Asn Ala Ile Gly Gly Lys Ala Thr Phe Leu Asp Ala Trp Glu Ala
      130              135              140
Met Glu Glu Leu Val Asp Glu Gly Leu Val Lys Ala Leu Gly Val Ser
      145              150              155              160
Asn Phe Ser His Phe Gln Ile Glu Lys Leu Leu Asn Lys Pro Gly Leu
      165              170              175
Lys Tyr Lys Pro Val Thr Asn Gln Val Glu Cys His Pro Tyr Leu Thr
      180              185              190
Gln Glu Lys Leu Ile Gln Tyr Cys His Ser Lys Gly Ile Thr Val Thr

```

195	200	205
Ala Tyr Ser Pro Leu Gly Ser Pro Asp Arg Pro Trp Ala Lys Pro Glu		
210	215	220
Asp Pro Ser Leu Leu Glu Asp Pro Lys Ile Lys Glu Ile Ala Ala Lys		
225	230	235
His Lys Lys Thr Ala Ala Gln Val Leu Ile Arg Phe His Ile Gln Arg		
245	250	255
Asn Val Ile Val Ile Pro Lys Ser Val Thr Pro Ala Arg Ile Val Glu		
260	265	270
Asn Ile Gln Val Phe Asp Phe Lys Leu Ser Asp Glu Glu Met Ala Thr		
275	280	285
Ile Leu Ser Phe Asn Arg Asn Trp Arg Ala Cys Asn Val Leu Gln Ser		
290	295	300
Ser His Leu Glu Asp Tyr Pro Phe Asn Ala Glu Tyr		
305	310	315

<210> 341  
 <211> 422  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 6, 10, 13, 15, 29  
 <223> n = A,T,C or G

<400> 341  
 gatganattt ttncnagaga gaggaagang ctattcagtt ggatgggatt aaatgcatca 60  
 caaataagag aacttagaga gaagtcggaa aagtttgcct tccaagcccg aagttaacag 120  
 aatgatgaaa cttatcatca attcattgta taaaaataaa gagattttcc tgagagaact 180  
 gatttcaaatt gcttctgatg ctttagataa gataaggcta atatcactga ctgatgaaaa 240  
 tgctctttct ggaaatgagg aactaacagt caaaattaag tgtgataagg agaagacctg 300  
 ctgcatgtca cagacaccgg tgttaggaatg accagagaag agttgggttaa aaaccttggt 360  
 accatagcca aatctgggac aagcgagttt ttaaacaaaa tgactgaagc acaggaagat 420  
 gg 422

<210> 342  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 109  
 <223> n = A,T,C or G

<400> 342  
 ctggagaagg tgtgcagggg aaacctgtct gatgtcaccc aggccagggt gtctttctac 60  
 tcgggacact ctctctttgg gatgtactgc atggtgttct tggcgctgna tgtgcaggca 120  
 cgactctgtt ggaagtgggc acggctgctg cgaccacag tccagttctt cctgggtggcc 180  
 ttgcccctct acgtgggcta caccgcgtg tctgattaca aacaccactg gaggcatgtc 240  
 cttgttggcc tctgcaggg ggcaactgtg gctgccctca ctgtctgcta catctcagac 300  
 ttctctcaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360

```

agcctgtcac tgacgttgac cctgggcgag gctgaccaca accactatgg atacccgcac 420
tctctctctt gaggccggac cccgcccagg caggagagcta ctgtgagtcc ag          472

```

```

<210> 343
<211> 139
<212> DNA
<213> Homo sapiens

```

```

<400> 343
gtcctggggcc ttccccttcc ctcaagccag ggctcctcct cctgtcgtgg gtcattgtg 60
accactggcc tctctacagc acggcctgtg gcctgttcaa ggcagaacca cgacccttga 120
ctcccgggtg gggaggtgg          139

```

```

<210> 344
<211> 235
<212> DNA
<213> Homo sapiens

```

```

<400> 344
ctgcggggtc agcacagtag acatgactgg gatccccacc ttggacaacc tccagaaggg 60
agtccaatth gctctcaagt accagtcgct gggccagtgt gtttacgtgc attgtaaggc 120
tgggcgctcc aggagtgcc ctatgggtggc agcatacctg attcaggtgc acaaattggag 180
tccagaggag gctgtaagag ccatcgccaa gatccggtca tacatccaca tcagg          235

```

```

<210> 345
<211> 458
<212> DNA
<213> Homo sapiens

```

```

<400> 345
ctgtaagggtg ctattcagtc ctgtgaccct tattttggaa tgctcttcat tactgttgct 60
ctgtttttgtg acttcctggg aaaccgccta ctttgggtgt gtgtcacctt gagctgtgca 120
cataggacac cagttttgac ttaacctaac aggcagtttt tatctctagc tttttcaagc 180
cagggtattga gcagtttctt ggccaatggc ctgagaaacc acctgtccct gtcaaggggt 240
gattttattg gttttaagtg gggaagtaat cccatgtact tatttcttaa atacctagga 300
agttcttctt ggtggctcct cttggccctc ccctctttct cccccaaccc accatcctgc 360
aaggcaagga atggcctctc cctccacaga ggcaacggct gcagagggag cactgtggct 420
gccatcccag ttcctcttca aagccaaaca gacacgcg          458

```

```

<210> 346
<211> 525
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 41, 42, 47, 48, 49, 161, 316, 324, 326, 327, 379, 455, 509
<223> n = A,T,C or G

```

```

<400> 346
ccagagcaca acgcctcacc atggactgga cctggaggat nntcttnnng gtggcagcag 60
ccacaggtgt ccactcccaa gcccaacttg tgcagtctgg ggctgaggag aagaagcctg 120
gggcctcagt gactatttct tgtaaggctt ctggatatat ncttactaaa tatactttac 180
attgggtgcg ccaggccccc cccggacaaa gacctgaatg ggtgggatgg atcaacactg 240

```



```
gcattgatac cgttaaatat tcacagaagt ttcaggacag agtctccatt acctgggact 300
catccgcgac cacagnctac ctgnanntga gtagcctgga atccgaagac acggctgtgt 360
attactgtgc gagacttang gcccggttcgc tgtggtggga cttaatgacg cttttgacat 420
ctggggccaa gggacagtgg tcaccgtctc ttcanggagt gcattcgccc caaccctttt 480
ccccctctct cctgtgaaga attccccgnc ggatacgagc agcgt 525
```

```
<210> 347
<211> 423
<212> DNA
<213> Homo sapiens
```

```
<400> 347
ccagacgctg acttgtttct gagtccttaa gcaggaagga tttgaaatcc tggagcttgg 60
cagtcttgct cttcacctct aagccaatgt tgacctctc atctataaag tccacaactc 120
tccggaagtc atcctcacgg aactgtcgag aagttaaggc tggggcccca agccgcaggc 180
cgcccggtgt gatggcactt cggctctccag gacaggtgtt cttgttgga gtgatggata 240
caagctctag caccgcgtca gcccgagctc catccaggcc cttgggccgc aggtccacca 300
gcaccagggtg gttgtcagta ccacctgata ccagttagta gcctcgctct agcagggcat 360
ctgccatggc ccgagcattc ttcagaacct gcagggagta ctcccgaac atgggggtgc 420
agg 423
```

```
<210> 348
<211> 513
<212> DNA
<213> Homo sapiens
```

```
<400> 348
cctctaggcc tgatgctctc agaggcaata gaagaaaagt aaaaggaagg tctcaacttca 60
cagacaatga aacctctcta accctcttcc ccactaccca caactcccta cactgccaat 120
ctaaataaaa agaggacaat gcatgagtgt gagatacaca tacacacaca cacatacaca 180
cacacacacg cacagcttcc tttcagccaa agaactgcaa aatccttccc cggaaggagg 240
acaactggca acaccaatca aggccttggtg gtctaagggt atggctggaa tcatgtgaga 300
ctggtaaaaa tccagggaga aaatgtttca ccttcagctc attcccaagt ctctatgaag 360
ccgccccac ttccacatag gggaactgtg gctctggggg cagcctctgc agctactcag 420
aatagggtggg aggaggggct ggctttgagg ctgccttagc catgaggctc tttgcctagg 480
aatagctgga gatgggagct gcagggggct cag 513
```

```
<210> 349
<211> 231
<212> DNA
<213> Homo sapiens
```

```
<400> 349
ccttatttct cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180
atatggactc tagagtagga ttgcgctgtt atccctaggg taacttggtc c 231
```

```
<210> 350
<211> 341
<212> DNA
<213> Homo sapiens
```

```
<400> 350
```

```

ctgcccgaagg gcggttcgtaa cgggaatgcc gaagcgtggg aaaaagggag cgggtggcgga 60
agacgggggat gagctcagga cagagccaga ggccaagaag agtaagacgg ccgcaaagaa 120
aaatgacaaa gaggcagcag gagagggccc agccctgtat gaggaccccc cagatcagaa 180
aacctcacc agtggcaaac ctgccacacc caagatctgc tcttggaatg tggatgggct 240
tcgagcctgg attaagaaga aaggattaga ttgggtaaag gaagaagccc cagatatact 300
gtgccttcaa gagaccaaat gttcagagaa caaactacca g 341

```

```

<210> 351
<211> 256
<212> DNA
<213> Homo sapiens

```

```

<400> 351
ggcggttggg acggtttagt gacgtggctc tttattcgtg agttttccat ttacctccgc 60
tgaacctaga gcttcagacg ccctatggcg tccgcctcga cccaaccggc ggcccttgagc 120
gctgagcaag caaaggtggt cctcgcggag gtgatccagg cgttctccgc cccggagaa 180
gcagtgcgca tggacgaggg tcgggataac gcctgcaacg acatgggtaa gatgctgcaa 240
ttcgtgctgc ccgtgg 256

```

```

<210> 352
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 21
<223> n = A,T,C or G

```

```

<400> 352
cctttcttgt aagtgaagaa naaggaatgc agcaaagaag agttcgacat tggagtcctt 60
agttccatca ggatcccatt cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120
gctgagatag gtgcaatgac ctacaagatt ttgtgttttc tagctgtcca ggaaaagcca 180
tcttcagtct tgctgacagt caaagagcaa gtgaaacat ttccagccta aactacataa 240
aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc 300
aaactcattg tgacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat 360
ttacatgg 368

```

```

<210> 353
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<400> 353
ctgaggggtg gcagtaagca atgaggatgg gctataaagc tgtaactgg ctaagggcca 60
tccttgggca ggcatttcag acacatctgt agagagggca gtagcatctc cgataggcca 120
gctctgaagg aagcttaatg ctttaatacag tcacactgca taaattagct tagaatgctc 180
tcttgggtaa aaaatattaa tagtgtatat gcacttgaag agcaaaattc ctcaagaaaa 240
aaagtttaat agcaaggagt ttccatcagt cccgtcttt gtgaggatta ccacaacaaa 300
cacttaaaag gataacaacag gtacttatta aatgctgcct tgccttttac ctcttccttt 360
tttttttt 368

```

```

<210> 354
<211> 380

```

<212> DNA

<213> Homo sapiens

<400> 354

```
ccatggcttc tccccagac agtctttctg ggcaacttgg ggaagccctt gttctgctca 60
agtctcacc catggaagag gtgggggaag ggggccttgg tttttcagga agacagggtg 120
gagagcacga gtcactacaa agcagtaaaa gtgaatgggtg tctccagggg ctgggtccag 180
aacaccacgg agagccccag ccataaaggt gtgttccgcc tctggcctgc aggaatctct 240
ttgaatctct ttgattgggt gctccaagag caatgggaag tcaacagcca ggaggctgga 300
ctgggttccc tgggaccccg aggtcccaga gctgctgggc agtggttgtc ggcaaagaag 360
aaaggtccaa gagggtcagg                                     380
```

<210> 355

<211> 347

<212> DNA

<213> Homo sapiens

<400> 355

```
ccagtggagg ggtgggggta tcgatcccg cgggggctgg cttggttget ggtgccctga 60
gcccttctct gccgcctgg gtgttgctt cactgatgga ggtaggcgtc cagccagatg 120
tcaccagact tcttcgggga cctgacgatg tccaccagcg cgttgaggaa gggcttact 180
tcgtagctga ggccgtgctt ggcacacagc gacttgacca gcggggccac ccggtcttag 240
ttgtgtctcg gcctcctggg gaagaggtgg tgctcgatct ggaagttgag gtgcccgtg 300
aaccagttgg tgaaaagtga gggctccacg ttgcagggtg ctgccag 347
```

<210> 356

<211> 157

<212> DNA

<213> Homo sapiens

<400> 356

```
cctggagctg ctgaagactg ctattgggaa agctggctac actgataagg tggtcacgg 60
catggacgta gcggcctccg agttcttcag gtctgggaag tatgacctgg acttcaagtc 120
tcccgatgac cccagcaggt acatctcgcc tgaccag 157
```

<210> 357

<211> 323

<212> DNA

<213> Homo sapiens

<400> 357

```
ccatacaggg ctgttgccca ggccttagag gtcactcctc gtaccctgat ccagaactgt 60
ggggccagca ccacccgtct acttacctcc cttcgggcca agcacacca ggagaactgt 120
gagacctggg gtgtaaatgg tgagacgggt actttgggtg acatgaagga actgggcata 180
tgggagccat tggctgtgaa gctgcagact tataagacag cagtggagac ggcagttctg 240
ctactgcgaa ttgatgacat cgtttcaggc cacaaaaaga aaggcgatga ccagagccgg 300
caaggcgagg ctcctgatgc tgg 323
```

<210> 358

<211> 555

<212> DNA

<213> Homo sapiens

<400> 358

```

aaaaggtttc taaaacatga cggaggttga gatgaagctt cttcatggag taaaaaatgt 60
attttaaaga aaattgagag aaaggactac agagccccga gttaatacca atagaagggc 120
aatgctttta gattaaaatg aaggtgactt aaacagctta aagtttagtt taaaagttgt 180
aggtgattaa aataatttga aggcgatctt ttaaaaagag attaaaccga aggtgattaa 240
aagaccttga aatccatgac gcaggagaa ttgcgtcatt taaagcctag ttaacgcatt 300
tactaaacgc agacgaaaat ggaaagatta attgggagtg gtaggatgaa acaatttgga 360
gaagatagaa gtttgaagtg gaaaactgga agacagaagt acgggaaggc gaagaaaaga 420
atagagaaga tagggaaatt agaagataaa aacatacttt tagaagaaaa aagataaatt 480
taaacctgaa aagtaggaag cagaagaaaa aagacaagct aggaaacaaa aagctaaggg 540
caaaatgtac accac 555

```

<210> 359

<211> 549

<212> DNA

<213> Homo sapiens

<400> 359

```

ctgccaggct gaaaagaagc ctcagctccc acaccgccct cctcaccgcc cttcctcggc 60
agtcacttcc actggtggac caegggcccc cagccctgtg tcggccttgt ctgtctcagc 120
tcaaccacag tctgacacca gagcccactt ccatcctctc tgggttgagg cacagcgagg 180
gcagcatctg gaggagctct gcagcctcca cacctaccac gacctcccag ggctgggctc 240
aggaaaaacc agccactgct ttacaggaca gggggttgaa gctgagcccc gcctcacacc 300
cacccccatt cactcaaaga ttggatttta cagctacttg caattcaaaa ttcagaagaa 360
taaaaaatgg gaacatacag aactctaaaa gatagacatc agaaattggt aagttaagct 420
ttttcaaaaa atcagcaatt cccagcgta gtcaagggtg gacactgcac gctctggcat 480
gatgggatgg cgaccgggca agctttcttc ctcgagatgc tcttgctgct tgagagctat 540
tgctttggt 549

```

<210> 360

<211> 289

<212> DNA

<213> Homo sapiens

<400> 360

```

ttttaaatttt actagtgtta cttaatgtat atttcaaaaa gagaatgcag taactaatgc 60
cctaaatggt tgatctctgt ttgtcattac tttttcaaaa ttattttttt ctgtaaagta 120
taatataata aacttcttgc ttaaattgaa tttctatatt agtggttaat tgcagtttat 180
taaagggatc attatcagta atttcatagc aactgttcta gtgttttgtg ttttttaaac 240
agaattagga atttgagata tctgattata tttttcatat gaatcacag 289

```

<210> 361

<211> 311

<212> DNA

<213> Homo sapiens

<400> 361

```

ctgttcagta tggcaaaggc cagacttact ccttcatcca ctctgctgcc ttgatgaggt 60
gaacacactg gaataagatg gagggcagga tacctgccaa agcctgagga atgagatgat 120
ctgaaacaat tgggcaaagg ctggacattt caaaaagctg acttccaact gcagtttatg 180
ggtatagaat ttgatgcttc cctcaagtcg tgactgctct ttctgaggca gccaggctag 240
gccaagaaat gagctgctcc agcttctcca gagcacagca gcctcccagg gcctgtcagc 300
atctgcagca g 311

```

<210> 362

<211> 496  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 14  
 <223> n = A,T,C or G

<400> 362  
 ccagtttcta aaanaatgca catttaaaga gaagcatcta ccacggcttt aaaacaaaac 60  
 aactctgaga tgaacaatat gtgttatact cagagattaa caatctcaat catacatact 120  
 gattctttca gacatttaaat aaccactaca tttttttgca ttaatgaagt ttgactatat 180  
 gtgtaaaggg actaaatatt ttgcaacag cctgttcttt gttcattctt ttctggatag 240  
 cgtgtcctct gtattgcggg agatttatac attctgttgc cttaaataatgt gtgtaaaatg 300  
 agctgataaa ctggagtact acttaaaaaa aagtctgtga ttataaatgat gcataatgctt 360  
 tctatgtgaa tataagcttg tgcacaatgt ttaaaagaaa aacaatgaat tagaagagat 420  
 ccccgctccc ccagtctgac atatttcata cagaatgttt aaaagaaaaa ctctgctagt 480  
 cttggcaaac atttgg 496

<210> 363  
 <211> 673  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 16  
 <223> n = A,T,C or G

<400> 363  
 ccaagaggga gataanacaa acttctcaaa caaaaagaaa agaaaaacga atgattcatc 60  
 tgctttaatc agtgtgatta atgcagcacc cattgccccg ggaaccggtt ctgctgtact 120  
 atctggatac taaaatgtta cggaagtagc tctttgttct cctcactct gcccttagtt 180  
 aatagaaatt cagactcgcc aagtaaggct ttgtgcatag tgtcttcatg tcgcgtatag 240  
 ttgagcgcgt tcttagcagt tggcttcatg gacagctcat tagtgttttg acttttctta 300  
 cccagcggtta attgaattct tgcttttaga caacttcctt tttgtagtgg tgaaccttgc 360  
 ccttttagtac agttcaagt aatctggata attgttcac tttgcttttag cttagatacc 420  
 atgtagtggt ctgtggctac aggaagctgg ttctgtctgc ttccacagtc tgcttaaaaa 480  
 actgtctgac ttcgtgaata tagagaccaa gtttaccact tctgatgaag agaccaatta 540  
 agattcattc ctcatctctg ttctttccag tgggagaaga gtcccatga aataagatga 600  
 aactgattcc atgcactagt acatgtaggc ttctcccttg cgcaaagctt aacaatttgt 660  
 aggaaacttt ggg 673

<210> 364  
 <211> 495  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13  
 <223> n = A,T,C or G

&lt;400&gt; 364

```

ccaaatgttt gcncaagact agcagagttt ttcttttaaa cattctgtat gaaatatgtc 60
agactggggg acgggggagc tcttctaatt cattgttttt cttttaaaca ttgtgcacaa 120
gcttatattc acatagaaaag catatacatc ttataaatca cagacttttt tttaagtagt 180
actccagttt atcagctcat ttacacaca tatttaggca acagaatgta taaatctacc 240
gcaatacaga ggacacacta tccagaaaag aatgaacaaa gaacaggctg ttgcaaaaat 300
atthagtccc ttacacata tagtcaaaact tcattaatgc aaaaaatgta gtgggttatta 360
aatgtctgaa agaatcagta tgtatgattg agattgttaa tctctgagta taacacatat 420
tgttcatctc agagttgttt tgttttaaag ccgtggtaga tgcttctctt taaatgtgca 480
ttttttagaa actgg                                     495

```

&lt;210&gt; 365

&lt;211&gt; 291

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 365

```

aactgacaag cccttgcgcc tgcctctcca ggatgtctac aaaattggtg gtattgggtac 60
tgttcctgtt ggcccagagt gagactggtg ttctcaaacc cggtatggtg gtcacctttg 120
ctccagtcaa cgttacaacg gaagtaaaat ctgtcgaaat gcaccatgaa gctttgagtg 180
aagctcttcc tggggacaat gtgggcttca atgtcaagaa tgtgtctgtc aaggatgttc 240
gtcgtggcaa cgttgctggt gacagcaaaa atgaccacc aatggaagca g                291

```

&lt;210&gt; 366

&lt;211&gt; 277

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 366

```

ctggatggtg cctcagaagg tgcattctgc ttctgcaggg gcttgaaaca ccaaggcact 60
ccagggatcc tggagtcaaa gcagcagccc cggttgttgc actccttggg ggtgacatgg 120
gggtagcccg cagtcacccc tgtccttggc tggcacggca cactggtttg cagacaggcc 180
cacgtactcc tcagcagagc tggaggacaa gcaaggccag gaccagcccc agcatgcaga 240
gcgctctggc agccatgacc accgtgggct ccggggac                                     277

```

&lt;210&gt; 367

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 367

```

ccagagctgc ggggcctcag tacacggagc tggtccggat gccacagcac agcaccatgc 60
tcaggatcat ctgaagatc atgatcacag cgaccagcat ggcagcaatg ccgatgaggt 120
acagcttccc ggagaagagg tcatcgatct tctggtggca gtctccttg aagagggttc 180
tgatgatgtt gctgcccag ggacacaaat tgttcttgag cactgaggtg gtcaaagcag 240
tcagtgtgct ggagccacag cagtcaagcg tctcgtggaa ggtcttcacc acagccttgg 300
cgttgttggc g                                     311

```

&lt;210&gt; 368

&lt;211&gt; 384

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 368

```
<210> 369
<211> 216
<212> DNA
<213> Homo sapiens
```

```
<210> 370
<211> 561
<212> DNA
<213> Homo sapiens
```

```
<210> 371
<211> 518
<212> DNA
<213> Homo sapiens
```

$\langle 210 \rangle$	372
$\langle 211 \rangle$	335

<212> DNA  
<213> Homo sapiens

<400> 372  
ctggaggctg ggtgcaccct gccagatcc acacctgtac cccggcggaa aggctcatgg 60  
gcattgaaga cggtagtgaa aaagccaaag ggaaaagcac caacacccaaa tgagaagtgg 120  
aagcccccg taccacccaa tggctggaat cccctctgc tctccggagc tggctctctgg 180  
ccctgggggc ggggtggagt ttttaatctg ggatcctggg gcttctggct cctctgcccc 240  
taaagcggga caaccttctc tctgctgac ccagctttac atactggaca ctcttgccgt 300  
tctggccgtg tctccagcca ctgatgaaga catgg 335

<210> 373  
<211> 467  
<212> DNA  
<213> Homo sapiens

<400> 373  
ccactagctg aatcttgaca tggaagggtt tagctaattgc caagtggaga tgcagaaaat 60  
gctaagttga cttaggggct gtgcacagga actaaaaggc aggaaagtac taaatattgc 120  
tgagagcatc cccccagga aggactttac ctccaggag ctccaaactg gcaccacccc 180  
cagtgtcac atggctgact ttatcctccg tggtccattt ggcacagcaa gtggcagtgt 240  
ctccaccacc tatgatgggt atgcagcccc tagaagtggc tttcaccacc tcatccatga 300  
gagcttttgt tccccgggca aaagcttccc attcaaatac cccacagga ccattccaca 360  
caatctgctt agcccagtg acagcctcag catacttctt gctgctttca ggaccacagt 420  
ccaagcccat ccagccagca ggtacgccag aagccacagt ggcttgg 467

<210> 374  
<211> 284  
<212> DNA  
<213> Homo sapiens

<400> 374  
tttccgtaaa agcgtgtaac aagggtgtaa atatttataa ttttttatac ctgttggtgag 60  
accgagggg cggcggcgcg gttttttatg gtgacacaaa tgtatatattt gctaacagca 120  
attccaggct cagtattgtg accgcgagc cacaggggac cccacgcaca ttccgttgcc 180  
ttaccgatg gcttgtagc cggagagaac cgattaaaac cgtttgagaa actcctccct 240  
tgtctagccc tgtgttcgct gtggacgctg tagaggcagg ttgg 284

<210> 375  
<211> 307  
<212> DNA  
<213> Homo sapiens

<400> 375  
cctactcttc tccgtccatt gtactatctg cccgtggtgg ggatggcagt aggatcatat 60  
ttgatgactt ccgagaagca tattattggc tccgtcataa tactccagag gatgcgaagg 120  
tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaattttag 180  
tggaacaata cacatggaat aatacccata tttctcgagt agggcaggca atggcgtcca 240  
cagaggaaaa agcctatgag atcatgagg agctcgatgt cagctatgtg ctggtcattt 300  
ttggagg 307

<210> 376  
<211> 650  
<212> DNA



<213> Homo sapiens

<220>

<221> misc\_feature

<222> 7, 10, 13

<223> n = A,T,C or G

<400> 376

```
ccattgnctn ctnacgtgat gtcacatcat gccaggatcat cttggcaaaa gtcggagcat 60
ttctcagtca ctgcaaagta gcccttctcg ttggagcacc ggaagagacg tgtgtgtttc 120
atgtactcgg catcgatcat atagggttc ttgtcccaa tgcccaccca gaagaagttc 180
tcagggtcct cacttcgtt gataacctgc ttgtgttagg aggtgtcaaa catggtgttc 240
aggatgtcct ctgccaactt ggcttcgtca ggtctgatg cccggccac ccaggcatac 300
acgatgccct gttgtcctc actctcaaag ggaaccttga ggatgaagca gaactcggag 360
ttgaggaggc tggagtcggt gttgatctgg atgcaccggg tgcagagggc gctgccgttg 420
gtgcggatct ggtagaggct gggctgttgg gcgccctgga ccgccttct cttgccccgg 480
tggatgatga acttcctctt gaaatgggac aggaacttgg ggttctctg ctgctgcgtc 540
atgcgtacca cctccagctt cccaggggag aggtctctga acttctttt caggctgaag 600
gtgaaggatga cccaccata ttgggaggct ttcacggccc tgccagaagt 650
```

<210> 377

<211> 306

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 38

<223> n = A,T,C or G

<400> 377

```
tctagatgca tgctcgagcg gccgccagt tgatgganatt ctgcagaatt cgccttctga 60
ggggcgccc gggcaggttc ggggtctgcc ttcacctgcc aggcccttcc ccgctagctt 120
ggggcgagca gagctgcgtc cagtggaaact aaagccgttc caggattatc aaaaactgag 180
cagcaacctt gggggacctg gatcatcac gactcccca actggaaggt cttctctctg 240
cctcaattcc cgtctcaagg ccacgccttc cacctacagt ggagtcttcc gcaccacagc 300
cgtcga 306
```

<210> 378

<211> 199

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 6

<223> n = A,T,C or G

<400> 378

```
ccacangtgg cacttgggtg tggctcctct gttatttctc ctcatgtgag aaagcagatc 60
atctccaaat cttgccattt gtatactttt ggtggagact tggatgtcat atcttctttg 120
ttttgggttt tcttccttag cttattttgt ggcttttaaa gaagtggatt gtattgtgag 180
atcctgtgat tcttgggtg 199
```

<210> 379  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9  
 <223> n = A,T,C or G

<400> 379  
 ccagggcang tcatcaagag gggcattgtc ttgcatgcgg cctgccgtgt ccaccagcac 60  
 cagctcaaag ccttggttac gtgcaaaagc aatggcttcc atggcaatgc cagcagcatc 120  
 cttgccatag cccttttcaa acaactgcac catggtgcgg ccaccatgct tctctggagg 180  
 gtgtagggca ctcaaacgcc ggggtgtgtgt acgcag 216

<210> 380  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

<400> 380  
 ccatgggcct tcctttccac taaaaggaat tccgaacagc aaaaagaagg tcttgagata 60  
 gtgaaaatgg tgatgatatc tttagaagggt gaagatgggt tggatgaaat ttattcattc 120  
 agtgagagtc tgagaaaact gtgctgtcttc aagaaaattg agaggcattc cattcactgg 180  
 ccctgccgac tgaccattgg ctccaatttg tctataagga ttgcagccta taaatcgatt 240  
 ctacaggaga gagttaaaaa gacttggaca gttgtggatg caaaaaccct aaaaaaagaa 300  
 gatatacaaa aagaaacagt ttattgctta aatgatgatg atgaaactga agtttttaaa 360  
 gaggatatta ttcaagggtt ccgctatgga agtgatatag ttcttttctc taaagtggat 420  
 gaggaacaaa tgaaatataa atcggagggg aagtgtctct ctgttttggg attttgtaaa 480  
 tcttctcagg gtcagagaag attcttcatg ggaaatcaag ttctaaaggc tttgcccac 540  
 gagatgatga ggcag 555

<210> 381  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<400> 381  
 ctgcaccagg tgggcctcta ggtcccatta agcccattgg tccaggggcca agtccaactc 60  
 cttttccatc atactgagca gcaaagttcc caccgagacc agggggggcca ggaggaccag 120  
 gtggaccagg agggcctgtg ggaccatctt caccatctct gcctgggggg cctgggtggac 180  
 cccttttctc acgtggctct ctatctccgg ctgggccctt tcttacagtt tcctcttgta 240  
 aagattggca tgttgctagg cataagggtta ctgcaagcag caacaaagtc cgcgtatcca 300  
 caaagctgag catgtctagc acttagacat gcagactcct tgtgtcgcag agcccctggg 360  
 tcaccggcgg aggtatcacc tggcggggcg ggcgatgcag tcgtgg 406

<210> 382  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> 18, 20

<223> n = A,T,C or G

<400> 382

```
ctgagcagtt tgtgggtntn tcttcccgca agtttcagga agtattcaca aaagaaaaat 60
acattttttc cccaggggtt ggggcaagga cagtggagag agtgctagga aatgagtcct 120
ctgggaaagg ggaccggggc gtgatgttaa atatctccgg ctcccaagtg actggatttg 180
cctaggacct tcagaccaac agacttcaga cctcagacc tgccccgggg ccagggtggag 240
aaagtgaggg ccgtacaagg aagtgaatt ctgagttgtt ggggctaagc ctgacccccct 300
ctccatgctc cccgccccaa cccactctgg cctcagtaga ttttttttc agttgtgggt 360
gttgcccagg ctggagtgcg gtagcgccat cttggctcac tgcacctcca cttccgggc 420
tcaagcgatt ctccagcctc agcctcctga gtagctagga ctgcaggtgc tccaccacgc 480
ccggctaatt tttgtatttt tagtagagat ggggtttccc catgttgg 528
```

<210> 383

<211> 335

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 5, 321

<223> n = A,T,C or G

<400> 383

```
ccatnttgag totactcctg cgtcttgtgc cctagcacc cgagaaccgt cagtttgagc 60
cagatggaag ctgagctgaa cacattacga tggatgatgg aaacataaga ctatcaagaa 120
atccaagtgg taatgggcga agtttattca gcatccggca atggacttat cgtagttggg 180
gaaacgggtg ttccgaataa tatcctggaa gttatcagga cacctatttt aaatataggc 240
ctgaattttg taaagtaata tttaagggtg tccgtgataa ttaaataaaa tgcttaattc 300
atgtggcgaa aaaaaaaaaa naaaaaaaaa aaaaa 335
```

<210> 384

<211> 333

<212> DNA

<213> Homo sapiens

<400> 384

```
agtccaatac ggctattggg gttgtagcag ctttcagagg aaattagtg tctgggcttg 60
cctccagctc cccaggggca gcccagtag ctacactgtc cagacagcac aagaccaggc 120
tggtgtcaag tccatccgag cgctgcctca gggatcgata aagtttcaact gcagaaagtc 180
tccactgcgg tatgetgaca tctgccctga accttcaccc tacagcatta caggctttaa 240
tcagattctg ctggaaagac acaggctgat ccacgtgacc tcttctgcct tcaactgggct 300
ggggtgatcc ttggtgcctt tgtttccaca agg 333
```

<210> 385

<211> 343

<212> DNA

<213> Homo sapiens

<400> 385

```
ctgtgacacc tcaggttgaa agggctcttc tcttgaaca cccaccgagg ggcttgagc 60
aacagccagc cgatatggac ttctagctgc accgggtcac tgagggtgga gaggtttgtc 120
tggcacctgt actctccact gtcgtcgact gtggcagcgt caatgaagta gctcgaggcc 180
```

```

tggtcttgaga tgaggctctc attgtgaaac cactgtgtgg aattgtcctc aggggagtag 240
gtcccttggc acttcagagt cacactgtcc ttctcgagca ccctgtacca ttgaggctcc 300
aggaacacca cagccttttg gagatcttca gtccgcatgc caa 343

```

```

<210> 386
<211> 244
<212> DNA
<213> Homo sapiens

```

```

<400> 386
tattctttga ttcttggcaa ataggtgaga gaactaatag caaccaggca actgaggacg 60
aagtcacaaa gtcggtaaca gaagaatgga atcagccaac ccacttgata agaaattgct 120
ccataaacca gcattgaact gattataaac ataagaacag agacggcaaa aagaacacag 180
gcattatcag ccattctctc agacgaatag taattaccga tgacttcata ctgaatgttg 240
acag 244

```

```

<210> 387
<211> 504
<212> DNA
<213> Homo sapiens

```

```

<400> 387
atctggagtc cagcctcagg gatgcgctac ttccattct ctgcattgaa cattcgttct 60
gtcagcatcc gtcacagctt cactgcatca gcggcaaact tgcggatccc gtcagagagc 120
ttctccacag ccattctggc ctgcttgtgc aaccaacgga aagacttctc atccagggtg 180
atTTTTTcca ggtcactggc ttgggcccgc ttggctgaga gcacaggcac cagcttggcg 240
ttgtcttgca gcagctctcc caggagcttg ggtgggatgg tgaggaaagtc acagccggcc 300
agtgttttga tctgcgccgt gttgcggaag gaggcgcca tgacaatggt tttgtagcta 360
aacttcttgt agtagttgta gatttttagt acactcttta cccagggtc ttccaggggc 420
tcataggatt tcttgtcggg gttttgcaca tgccaatcaa ggatgcgccc aacaaatggg 480
gagatgaggg tcacaccgcg ctcg 504

```

```

<210> 388
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 199, 210, 218, 231, 267, 271, 290, 330, 342, 383, 390,
395, 399, 405, 414
<223> n = A,T,C or G

```

```

<400> 388
gcaaaagtgc tgcntgaatt ccactccctt ggttttcgcc tgcccagcgt tgctgtttgc 60
gtggagggtg gggggagctc agtggcaggg aatcagcggc ccgtggggtc gtggggacgg 120
gaacatgtgc ccgaccgctc catccctcc tctccttag gatgcataac ctaccttgct 180
tttttttttt taaattttnt ttccagggtan agtagctntt tgtacataaa naatacttga 240
aaaattaatt gtatgatgta tgaaaanaca nagtctccta gttttgtatn ttgttgatg 300
actgccatga gttccaccaa aaagccactn ttttttggct tntgtgacat tttaaatgcg 360
tgacaaaagt gagcaataaa agngaggaan aaatntatnt atganataat atanattgta 420
ttgaaatcta aaaaaaaaaa aaaaaaaaaa 450

```

```

<210> 389

```

<211> 297  
 <212> DNA  
 <213> Homo sapiens

<400> 389  
 cctgcacttg aacatggctt tggttttaag caacttctct accctgaccc tcctcctggg 60  
 acagcgtttc gggaggtttc ttggcctcac tgagagggat gtggagctgc tgtaccccgt 120  
 caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180  
 caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtcttg ctgcctatat 240  
 tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

<210> 390  
 <211> 223  
 <212> DNA  
 <213> Homo sapiens

<400> 390  
 ctgggctgga gagttggtgc tggcaaaaaca gtccctcccc tggggccggg tcttaccag 60  
 gtccagagaa accaacgcgg gatgtcagac ttcacaaaaa ggactttctg gttgcccctg 120  
 gctggcttcc tggaggcggt cgcctctagt ttctcaggga tggagcgaga gccagccag 180  
 agaacagtaa gaggagctgc tctcctatct gcactcacc agg 223

<210> 391  
 <211> 365  
 <212> DNA  
 <213> Homo sapiens

<400> 391  
 ctgaggaaga aatgaaaaaa gaccctgtcc ctcatggccc gccactggc ctccctgtgaa 60  
 ctctgtcctg ttgccaaccc cagatgaagt cagcaaaaaa gtgctttcca catcctctct 120  
 ctggggctgc ccagcctgac cgtaggggat ccactggcag agccaagggt gatgctggtg 180  
 cctgaagctg gaagccagca ggacatgaga cccctcctgt agcaggaagt ggttctagaa 240  
 ctcccagcag aacagaacgg aaaaggagct gattggggat agaatgagtt ctgctaaaca 300  
 gccagatgct ctgagagagg tgacactgga ctgtctcgga ggtgtgtgca gatggctaca 360  
 ggtgg 365

<210> 392  
 <211> 302  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 28  
 <223> n = A,T,C or G

<400> 392  
 ccaagagcta caatgagcag cgcatacanga cagaacgtgc aggtttttga gttccagttg 60  
 actgcagagg acatgaaagc catagatggc ctagacagaa atctccacta ttttaacagt 120  
 gatagttttg ctagccaccc taattatcca tattcagatg aatattaaca tggagagctt 180  
 tgctgatgt ctaccagaag ccctgtgtgt ggatggtgac gcagaggacg tctctatgcc 240  
 ggtgactgga catatcacct ctacttaaat ccgtcctgtt tagcgacttc agtcaactac 300  
 ag 302

<210> 393  
 <211> 213  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13, 19  
 <223> n = A,T,C or G

<400> 393  
 ccaataatca agnacaaana ctggatttga ggatggatca gttctgaaac agtttctttc 60  
 tgaaacagag aaaatgtccc ctgaagacag agcaaaatgc tttggaaaga atgaggccat 120  
 acaggcagcc catgatgccg tggcacagga aggccaatgt cgggtagatg acaagggtgaa 180  
 tttccatttt attctgttta acaacgtgga tgg 213

<210> 394  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<400> 394  
 cctaccata atccagagag gcttgcccag aggaggacta cgtgggggac gtgccaccag 60  
 aaccctactt gggggcgagg tgctactccg aggtcaaaac ctgctccgag gtggacgagc 120  
 cgtagctccc cgaatgggct taagaagagg tgggtgttca ggtcgtggag gtcctgggag 180  
 agggggccta gggcgtggag ctatgggtcg tggcggaatc ggtggtagag gtcgggggtat 240  
 gatagggtcg ggaagagggg gctttggagg ccgaggccga ggccgtggac gagggagagg 300  
 tgcccttgct cgccctgtat tgaccaagga gcag 334

<210> 395  
 <211> 174  
 <212> DNA  
 <213> Homo sapiens

<400> 395  
 ccagatgagg aaaaaaatta ggaaggagat gaagttttcc aaattttcatg gtatatgctg 60  
 cacttcccca accttcactc tccatgtagc ctactgggtc tactattcca caaagtggct 120  
 caacctccaa atgacctctg gtttaccctc attaaaatcc caaaggactt tcag 174

<210> 396  
 <211> 140  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 20  
 <223> n = A,T,C or G

<400> 396  
 ctgcaaagcc ttgtgtaacn ttctccagca tttggacca gtacgtgaaa gccacaaca 60  
 cgttcattgt ctttagtatt acagattatt tttgcataac atttgttgtt atctcttgac 120  
 ggaatcgtcc attccaatgg 140

<210> 397  
 <211> 318  
 <212> DNA  
 <213> Homo sapiens

<400> 397  
 cctgcctgg agggcccccg ggcagcacag ggaggacgag cttgtccagc agagggctctg 60  
 gcagagggtc ccgcagaggt ttgggcaggg ggtctgacat ccctggctcc tgctctggct 120  
 ctggctgccg ggatttgac agggccagggt gcatacagat gccgtttgag tcagtctggg 180  
 tctggaagta gtcgatgacc agggggaagt agtcgtcaag cacttggttg cactggggca 240  
 tgagcagctt caaggggagg acgttgact cctgctccag gaacttcctc atcgtgtcct 300  
 ggaaaatggc ctctttgg 318

<210> 398  
 <211> 517  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5  
 <223> n = A,T,C or G

<400> 398  
 ccttncctcg ccatccattc atcgaccctc tccagcactt gctgcaggct tggctgacca 60  
 tccaccatgg cttgaataat cccggtgagc tctgtacaga atggggtaag ctgtggatgg 120  
 actacaggct ggacatacat gtgaaaggta gactcaatct ccatgggccg gccatttagc 180  
 tttaggatgg ggaactcgat gatttctga ggatgaatct gtggcttgct gcacgtggcc 240  
 tcaaagtcca gcaactaaaa gtagtgtac ctctggagag ggaaggacac cattgccgcc 300  
 atggatgccc caaagccgtg ggccgccagc tttctgggtg atatggagca gaactccgga 360  
 acaccacagg gagaaaataa gtgggagccc agcacttttc ttgctcttga aagtaaatac 420  
 gaagaaaatc gagctgctcc agtctgtaaa ggtgctagca ttgaacatcc agaagcatct 480  
 aaaactctcc ttacttcgaa gatgccaaaga ccggcag 517

<210> 399  
 <211> 329  
 <212> DNA  
 <213> Homo sapiens

<400> 399  
 ccaacctcag gcaacgggtg gagcagtttg ccagggcctt ccccatgcct ggttttgatg 60  
 agcattgaag gcacctggga aatgaggccc acagactcaa agttactctc cttcccccta 120  
 cctgggccag tgaaatagaa agccttttcta ttttttggtg cgggagggaa gacctctcac 180  
 ttagggcaag agccaggat agtctccctt cccagaattt gtaactgaga agatcttttc 240  
 tttttccttt tttcggtaac aagacttaga aggagggcc aggcactttc tgtttgaacc 300  
 cctgtcatga tcacagtgtc agagacgag 329

<210> 400  
 <211> 451  
 <212> DNA  
 <213> Homo sapiens

<400> 400  
 ctggcttcac tgctcagggtg attatcctga accatccagg ccaaataagc gccggctatg 60

```

ccccgtgatt ggattgccac acggctcaca ttgcatgcaa gtttgctgag ctgaaggaaa 120
agattgatcg ccgttctggt aaaaagctgg aagatggccc taaattcttg aagtctggtg 180
atgctgccat tgttgatatg gttcctggca agcccatgtg tgttgagagc ttctcagact 240
atccaccttt gggtcgcttt gctgttcgtg atatgagaca gacagttgcg gtgggtgtca 300
tcaaagcagt ggacaagaag ctgctggagc tggcaaggtc accaagtctg cccagaaagc 360
tcagaagcta aatgaatatt atccctaata cctgccaccc cactcttaat cagtggtgga 420
agaacggctc agaactgttt gtttcaattg g

```

```

<210> 401
<211> 180
<212> DNA
<213> Homo sapiens

```

```

<400> 401
ccaggaagca ggccagggga ttggcagcac tgcccagcac cacagccagg tggtaggcca 60
gacgcccgtg gggtaagcag gaaaagctct gcacggcagg cagcacgcca ttggtcagcg 120
cgttgggtggc ggccaacagg cccagcaggc aggcactgcg ggctgataga agctgatagg 180

```

```

<210> 402
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<400> 402
ccaggccacc tgtgcggggc tctcagatgt ggaaggttcg ggtgaggaga ttgtagaagg 60
agccgtagca cacggccacc acagtgcacg tgaggcagat cacgtttagt ggcatgctga 120
agtccggtgt cggcagggtc accagcagcg gtcctgtgta gagccgcaca aagtagttag 180
agccatcaga gactgggaac aggtgttga agaggggact ctcttcccag tccactggct 240
tggtgctac catgctgggc acaaggcgcg tgaggacaga tgggctgaca tagaagccat 300
ggttaggatc tggcgtgtac tcggtccact tcagcagcgc ccgctcaaac tggatggaaa 360
ccttggtgac tgagttggcc ggccag

```

```

<210> 403
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13
<223> n = A,T,C or G

```

```

<400> 403
ctgtttaacc agnaaccggt ggggtcaccc cccacagaat gtacatgaaa cactagagga 60
ctgcatgttt ttccctgaga gaagcgtaag acaaacagaa gtcaaaaagt agtcactggg 120
agcgccatcc ttctaagcaa atcctccctt tcccttttgg aggatttgcc cgaactaagt 180
agccagtcag cacttagacc acctgcctcc tccccccct ataaaccac cactccctc 240
ctcctttccc aaaccacttg ggggtgctta agccctcact gcccacagcc caaaatatca 300
gctaagatcc ttgtcagtat ttccacagtc atacctaata aattgggaag tggggccct 360
aaaaaccaat tcacatctat gcacttgttt ccactggatt tggcagacag gcttttttag 420
ttaccgtaac cagatcttaa

```

```

<210> 404

```



<211> 239  
 <212> DNA  
 <213> Homo sapiens

<400> 404  
 cctacgaaaa actcccggcc ggtgaagaga acgtcagtgc catccagcgt cgcgtttctcg 60  
 tctcctatatt ccacaattcg gagccccagg tcttgacagg ctttgccggac tccatcgacc 120  
 tctggcctac gagcggggct ccaggggcgc gtgattaggg ccgtgtcccc ttggatcacg 180  
 gccgtgtcgc caagcagcgg tcccagcggc aatgactcct caggtggcag ttctagcag 239

<210> 405  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400> 405  
 ctggagaggg agcccttcac cggatgcccc gctccgtgcc cctgcggggcc ccagcacagt 60  
 ttacctttct cccccacggc ggtcccatct actctgtgag ctgttccccc ttccacagga 120  
 atctcttctt gagcgtctgg actgacgggc atgtccacct gtactccatg ctgcaggccc 180  
 ctcccttgac ttcgctgcag ctctccctca agtatctgtt tgctgtgcgc tgggtccccag 240  
 tgcggccctt ggtttttgca g 261

<210> 406  
 <211> 641  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13  
 <223> n = A,T,C or G

<400> 406  
 ctgtccccgg gentgggtggc agcaagtaga catcgggcct gtgcagggcc acccccttgg 60  
 gccgggagat ggtctgtctc agtggcgagg gcaggctctgt gtgggtcacg gtgcacgtga 120  
 acctctcccc ggaattccag tcatcctcgc agatgtctgc ctcacccacg gcgctgaaag 180  
 tggcattggg gtggctctcg gagatgttgg tgtgggtttt cacagcttcg ccattctggc 240  
 ggggtccagga gatggtcacg ctgtcatagg tggtcaggtc tgtgaccagg caggtcaact 300  
 tgggtggactt ggtgaggaag atgctggcaa aggatggggg gatggcgaag acccggtatg 360  
 ctgtgtcttg atcggggaca cacatggagg acgcattctg ctggaaggtc agggccctgt 420  
 gatccacgcg gcaggatgaac atgctctggc tgagccagtc gctctctttg atggtcagtg 480  
 tgetgggtcac cttgtaggtc gtgggcccag actctttggc ctgagcctgc acctgggtccg 540  
 tgggtgacgc agaccccacc tgcttccctt cgcgcagcca ggacacctga atctgccggg 600  
 gactgaaacc cgtggccttg cagatgagct tggacttgcg g 641

<210> 407  
 <211> 173  
 <212> DNA  
 <213> Homo sapiens

<400> 407  
 ccagggtactg gcacaatcat gtctggatgg ggggtgggtgt gtcctgtagg cagagaaaca 60  
 ggaaattgtc gtagtcagta tcgagcagcg tggcctcgtt cgccaccgta tagttgatct 120  
 tgaacttctt tggattctca gtcttctctc caaggacctt cttctcaaca cag 173

$$\begin{array}{ll} \langle 210 \rangle & 412 \\ \langle 211 \rangle & 433 \end{array}$$

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 135, 138, 153, 162, 187, 206, 208, 212, 214, 219, 224, 237, 254, 271, 295, 303, 330, 336, 348, 358, 364, 367, 375, 394, 433

<223> n = A,T,C or G

<400> 412

```
cctgagaagc cagaggcagg tggagagggg gtggaaagtg agcagcgggc tgggctggag 60
ccgcacacgc tctcctccca tgtaaataag cacctttaga aaaattcaca agtccccatc 120
cacaaaaaaa aaaanaanaa aaatttcagg gantaaaaat anactttgaa caaaaaggaa 180
catttgntgg cctggggggg catctnantt tntntagcnc cagngattcc ctccccnccc 240
cacccatcac atanatgtaa cacctttggt ntaaaatggg gagccgtttc caccntgccc 300
ccntccccgc cccaggcagc ttgccccggn gacacntcaa gacaggancc aggtagtntt 360
tcancancac agttncacaa ggaacagaac agtntctccc gcccagccct gcggcacaag 420
ggattgacac gcn 433
```

<210> 413

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 17

<223> n = A,T,C or G

<400> 413

```
ccttatttct cttgtcnctt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggctgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctggt atccctaggg taacttgttc cgttggtcaa 240
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300
ctcggagggt gggttctgct ccgaggctgc cccaaccgaa atttttaatg caggtttggt 360
agtttaggac ctgtgggttt gttaggtagt gtttgatta ataaattaaa gctccatagg 420
gtcttctcgt cttgctgtgt tatgcccgcc tcttcacggg cagggtcaatt tcaactggta 480
aaagtaagag acag 494
```

<210> 414

<211> 294

<212> DNA

<213> Homo sapiens

<400> 414

```
ctgggcggat agcaccgggc atatttttga atggatgagg tctggcacco tgagcagtoc 60
agcgaggact tggctcttagt tgagcaattt ggctaggagg atagtatgca gcacggttct 120
gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga 180
ttacagggtt gggaacagct cgtacacctg ccattctctg catatactgg ttagtgagggt 240
gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcctt gtgg 294
```

<210> 415

<211> 421  
 <212> DNA  
 <213> Homo sapiens

<400> 415  
 ccttgcccct gccctcccac gaatgggttaa tatatatgta gatatatatt ttagcagtga 60  
 cattcccaga gagccccaga gctctcaagc tcctttctgt caggggtggg gggttcagcct 120  
 gtcctgtcac ctctgagggt cctgctggca tcctctcccc catgcttaact aatacattcc 180  
 cttccccata gccatcaaaa ctggaccaac tggcctcttc ctttcccctg ggacaaaaat 240  
 ttaggggcct cagtcctca ccgccatgcc ctggcctatt ctgtctctcc ttcttcccc 300  
 tggcctgttc tgtctctgag ctctgtgtcc tccgttcatt ccatggctgg gagtcaactga 360  
 tgctgcctct gccttctgat gctggactgg ccttgcttct acaagtatgc ttctcccaca 420  
 g 421

<210> 416  
 <211> 342  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 17  
 <223> n = A,T,C or G

<400> 416  
 ccactttctt tcccacnctg gaaggcggca tctatgaatt cattggggag ttcatgaagg 60  
 ccagcgtgga tgtggcagac ctgataggtc taaaccttgt catgtcccgg aatgccggca 120  
 agggagagta caagatcatg gttgctgccc tgggctgggc cactgctgag cttattatgt 180  
 cccgctgcac tcccctatgg gtcggagccc ggggcattga gtttgactgg aagtacatcc 240  
 agatgagcat agactccaac atcagctctgg tccattacat cgtcgcgtct gctcaggtct 300  
 ggatgataac acgctatgat ctgtaccaca ccttccggcc gg 342

<210> 417  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<400> 417  
 tattaattag gttcttaaga catttagaac accaatttgt gaggataaat tccattcgtc 60  
 agagcaaaca cagatcgag gtagccctgg agctgaggaa tagctttgat ttttggtaaa 120  
 atttgtgagt ccacagcttt ctgatcaatc ttgcgctgct ccgtaatctc atatttctct 180  
 ttttctgtgt cgaagatctc accttccctg tgtctgggct tccgcagctt cttcttcttg 240  
 aagtaagcat cagtaagatg ttttgggatt ttacattgc tgatatcgat tttggttgaa 300  
 gtggcaatga caaatttctg gtgtgttctt cgtagaggaa ctcgattgag gaccagaggt 360  
 ccagtcacaa gtaataagcc actagccag 389

<210> 418  
 <211> 343  
 <212> DNA  
 <213> Homo sapiens

<400> 418  
 gtgggagggg gccaggttgg gatggaggga gtttacagga agcagacagg gccaacgctg 60  
 aagccgaatt cctggtctgg ggcaccaacg tccaagggg ccacatcgat gatgggcagg 120

```

cgggaggtct tgggtggttt gtattcaatc actgtcttgc cccaggctcc ggtgtgactc 180
gtgcagccat cgacagtgc gctgtaggtg aagcggtgtg tgccctcggc gcggatctcg 240
atctcgttgg agccctggag gagcagggcc ttcttgaggt tgccagtctg ctggtccatg 300
taggccacgc tgtttttgca gtggtaggtg atgttctggg agg 343

```

```

<210> 419
<211> 255
<212> DNA
<213> Homo sapiens

```

```

<400> 419
cctagcaaga gaatcaccaa atttatggag agttaacagg ggtttaacag gaaggaagtg 60
ccttttagtaa gttctcaagc cagaggctgg aggcagcagc taaatcagag gacagcatcc 120
tcagtgaag tgagccattc ggggtggcat gtcactccag gaataaacac aacttagaaa 180
caaatgattt cgtaggatag cacagtgcac tgggtgcactg tgaacctgag gccactgtgt 240
caaactgtgc actgg 255

```

```

<210> 420
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<400> 420
cttctgatga taaccaaccc ctagctacca ctctgtattc atcaggggag ggggtataaac 60
cccacatgca agaagaaccc ttgccccccag tgtcaaatgg gatggggatg ctagagttat 120
agtaaagggg aaaccctatg taagctgtta acagagttca caggggtagg gataaccctt 180
gttctccagc tcccaaattg gtcactttc ccagcttctt catccgttca tcaatgctgg 240
caaagttccc ctcaactgtg g 261

```

```

<210> 421
<211> 179
<212> DNA
<213> Homo sapiens

```

```

<400> 421
ccttctgtgt gttgtttcaa atgctgcttg atttctcgta acagatctgc atctatgtaa 60
tacctttctt cagatctgac tgcctcaaaa tgattctgca tcctgatttg agacatcaat 120
tcatttagtc ggcccttgaa ctgagtaggt gcatttagtt caccctgaat cgtatccag 179

```

```

<210> 422
<211> 424
<212> DNA
<213> Homo sapiens

```

```

<400> 422
cgagggtccaa atctgatctg cagatgcaga agattcgaca gaagctgcag actaaacagg 60
ctgccatgga gaggtctgga aaagctaagc aactgcgagc acttaggaaa tacgggaaga 120
agggtgcaaac ggaggttctt cagaagaggc agcaggagaa agcccatatg atgaatgcta 180
ttaagaaata tcagaaaggc ttctctgata aactggattt ccttgaggga gatcagaaac 240
ctctggcaca gcacaagaag gcaggagcca aaggccagca gatgaggaag gggcccagtg 300
ctaaacgcag gtataaaaaa cagaagtttg gttttggtgg aaagaagaaa ggctcaaagt 360
ggaacactcg ggagagctat gatgatgtat ctagcttccg ggccaagaca gctcatggca 420
gagg 424

```

<210> 423  
 <211> 256  
 <212> DNA  
 <213> Homo sapiens

<400> 423  
 ctgtggccta gggctacctc aagactcacc tcataccttac cgcacattta aggcgccatt 60  
 gcttttgga gactggaaaa gggaagggtga ctgaaggctg tcaggattct tcaaggagaa 120  
 tgaatactgg gaatcaagac aagactatac cttatccata ggcgaggtg cacaggggga 180  
 ggccataaag atcaaacaatg catggatggg tcctcacgca gacacacca cagaaggaca 240  
 ctacgctgtg cacgcg 256

<210> 424  
 <211> 330  
 <212> DNA  
 <213> Homo sapiens

<400> 424  
 ccagccgcat gggagtggag gcagtcacg ccttgctaga ggccaccccg gacacccag 60  
 cttgcgtcgt gtcaactgaac gggaaccacg ccgtgcgcct gccgctgatg gagtgcgtgc 120  
 agatgactca ggatgtgcag aaggcgatgg acgagaggag atttcaagat gcggttcgac 180  
 tccgagggag gagctttgcg ggcaacctga acacctaca ggcacttgcc atcaagctgc 240  
 cggtatgatc gatcccaaag accaattgca acgtagctgt catcaacgtg ggggcacccg 300  
 cggctgggat gaacgcggcc gtacgctcag 330

<210> 425  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 12, 124, 133, 145, 152, 244, 249, 254, 263, 307  
 <223> n = A,T,C or G

<400> 425  
 ctgctccatg gnctcaaagt cagcaccacc cacacccaca atgatcactg acatgggcag 60  
 gttcgaggca cgcaccacag cctcacgtgt ggcttccaca tccgtcacag caccatcagt 120  
 cagnagaaac agnatgaagt attgngaggc antcccctga tgtgcagcct gggctgcaaa 180  
 cctggacctg cccggggcggc cgctcgaaag gggaattcc agcacactgg cggcogttac 240  
 tagnggatnc agantcggg acnaagcttg gcagtaatca tggtcatagc tgtttcctgt 300  
 gagcggntgg gatgaacgcg gccgtacgct cat 333

<210> 426  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 346  
 <223> n = A,T,C or G

<400> 426

```

gggtgttcat catgaggatt gcttctgcc tggagctgat ggacgtgggc aggttgctga 60
gaaggtgggg tggaagtga tgccgggggt ggggtgagtgc cctgggtcttg ttcataagggg 120
agcctttccc tagcagtga acgctgtggt cattttctct agcatattcc cttgggaagt 180
ctagatttgc tattaatctg gctgagaatc taagttctgt gccttagaga cagtttgcac 240
tttcccatat tgtgcctggg acagccatat gatttttttt cccaccaaac aagtatgcaa 300
acagaaacca gttcaaagg ggatgggtgta aaagatgagg cagtanaaat gcctttgaat 360
ggttttctgt agctaattct ctttaaat tgtcctgctt tttttcttta t 411

```

<210> 427

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 136

<223> n = A,T,C or G

<400> 427

```

acgtgtacaa gtttgaactg gatacctctg aaagaaagat tgaatttgac tctgcctctg 60
gcacctacac tctctactta atcattggag atgccacttt gaagaaccca atcctctgga 120
atgtggctga tgtggnatc aagttccctg aggaagaagc tccctcgact gtcttgctcc 180
agaacctttt cactccaaaa caggaaatc agcacctgtt ccgcgagcct gagaagaggc 240
ccccaccgt ggtgtccaat acattcactg ccctgaccc ctcgcggttg cttctgctct 300
tcgctctgtg gatccggatt ggtgccaatg tctccaaact cacttttgct cctagcacga 360
ttatatttca cctgggacat gctgctatgc tgggactcat gtatgtctac tggactcagc 420
tcaacatggt ccagaccttg aagtacctgg 450

```

<210> 428

<211> 377

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 133, 181, 246, 264, 280, 290, 300, 325, 360, 362, 374

<223> n = A,T,C or G

<400> 428

```

cagggtata gtgcgctatg ttgatctggt gttcatgcta agttccgcat caatatggtg 60
acttcttggg agtgggggac caccagggtg cctaaggagg ggtgaacctg cctacgttgg 120
aaatagagct ggncaaaaact cctgtgctca tcagtagtag aattgcacct gtgaatagcc 180
nccgccctcc agcatgggca acataacaag accctgcctc ttaaagataa aaattggaaa 240
acactngtag gaaaaaaaagg gtgnttggtc taaataaatn tggattgggn ataaatgacn 300
caaaactatc atgaatttga aagcntttct aatttcttga aagtctgaaa aaagttaaan 360
cncaatttta tctnaaa 377

```

<210> 429

<211> 206

<212> DNA

<213> Homo sapiens

<400> 429

```

gttgctcttc caaagaaggt tggcttcaag gccgtgtcca gggacccacg agcagaggca 60

```

```

ctggggggcga agggatctcc aaggggggcaa gggatcccta aagggggtag ctcacaggtg 120
aggggggttta gggcccctct agggagcgcc tgaggccata cattcaagag tgtccctggt 180
gaggcccagg gaagagccag gactgg                                     206

```

```

<210> 430
<211> 473
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9, 329, 335, 363, 365, 448
<223> n = A,T,C or G

```

```

<400> 430
ccttatttnt cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatoga ggtcgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctgtt atccctaggg taacttgttc cgttggtcaa 240
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300
ctcggagggt gggttctgct ccgaggtcnc cccanccgaa atttttaatg caggtttggt 360
agntnaggac ctgtgggttt gttaggtact gggtgcatta ataaattaaa gctccatagg 420
gtcttctcgt cttgctgtgt tatgccncc tcttcacggg cagggtcaatt tca          473

```

```

<210> 431
<211> 215
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 15
<223> n = A,T,C or G

```

```

<400> 431
cctgtatnaa gctanaaaaa gactaccagc ccgggatcac cttcatcgtg gtgcagaaga 60
ggcaccacac ccggctcttc tgactgaca agaacgagcg ggttgggaaa agtggaaaca 120
ttccagcagg cagcactgtg gacacgaaaa tcacccaccc caccgagttc gacttctacc 180
tgtgtagtca cgctggcatc caggggacaa gcagg                                     215

```

```

<210> 432
<211> 391
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 377
<223> n = A,T,C or G

```

```

<400> 432
ccagcactgc cacaaacttt ttcaggggcca ccaggcgctg cccttccagg accgggaacc 60
tgcccaacttc tatccgcagg atgtagtgca gtgcagattc caggtcagcc atgtagatcc 120
tggagcgatc tgccaatttc caaacagtgg gagctatctt gttagcagtg gttggtgcaa 180

```



```

ctgtggtctg ggcagcctcc ctggtgagcc cagagagtct ctgcaggtaa gcggtataga 240
aggacctgga ttccatgagc acgggggactc gggagacgga gccattccgg aacagcaggt 300
agcaagaggg gaagtcggtg acaccaaact ttctcaccac attggcctct gtgttcagca 360
ccctgcgcac cgccacncct ttgtgctggg a 391

```

```

<210> 433
<211> 420
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 275, 295, 328, 374, 399, 413, 420
<223> n = A,T,C or G

```

```

<400> 433
ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcagatagct gctggctgcg 60
tacttgttgt tgctttgttt ggaggggtgtg gtggtctcca ctcccgcctt gacggggctg 120
ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
agtgtggcct tgttggttg aagctcctca gaggagggcg ggaacagagt gaccgagggg 240
gcagccttgg gctgacgtag gacggttagt ttggnccctc cgccgaatgc cgcanttcta 300
ctgtcccaca cctgacagta atagtcancc tcatcttcgg cttgggctct gctgatggtc 360
agggtggccc gtgntccccg agttggagcc agggaatcnc tcagggatcc canagggccn 420

```

```

<210> 434
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 199, 236
<223> n = A,T,C or G

```

```

<400> 434
ccaaccanga gagaagggat cgcttggtgc ccagggccca ccaggagctc caggcccact 60
tgggattgct gggatcactg gagcacgggg tcttgaggga ccaccaggca tgccagggtc 120
taggggaagc cctggccctc aggggtgtcaa gggtgaaagt gggaaaccag gagctaacgg 180
tctcagtgga gaacgtggnc cccctggacc ccagggtctt cctggtcttg ctggtncag 239

```

```

<210> 435
<211> 415
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 78, 225, 228, 276, 328, 330, 339, 352, 378, 387, 405, 415
<223> n = A,T,C or G

```

```

<400> 435
ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cgcaagagcc 60
tatgtatgtg gaatccanaa ctcagtgagt gcaaaccgca gtgaccaggt caccctggat 120

```

```

gtcctctatg ggccggacac ccccatcatt tcccccccag actcgtotta cctttcggga 180
gcaaacctca acctctcctg ccactcggcc tctaaccat cccncanta ttcttggcgt 240
atcaatggga taccgcagca acacacacaa gttctnttta tcgccaaaat cagccaaat 300
aataacggga cctatgcctg tttagggntn taacttggnt actggcgcga anaattccat 360
agtcaagagc atcacagnct ctgcatntgg aacttctcct ggctntcaga cctgn      415

```

```

<210> 436
<211> 152
<212> DNA
<213> Homo sapiens

```

```

<400> 436
ccaggattga caggccatcc attcacagcc aggagatgct gggccagtcc ctccaagagg 60
tctccgtcat ggcagtgatg aaaacctaac aggggtggccc cctgtgccag ctcaggtgac 120
tggagcccga ggcctgaca ggttcccagc ag                                152

```

```

<210> 437
<211> 174
<212> DNA
<213> Homo sapiens

```

```

<400> 437
ccagggtactg gcacatcatg ctctggatgg ggggtgggtgt gtcctgtaag cagagaaaca 60
ggaaattgtc gtagtcagta tcgagcagct gtggcctcgt tcgccaccgt atagttgatc 120
ttgaacttct ttggattctc agtcttctct ccaaggacct tcttctcaac acag          174

```

```

<210> 438
<211> 485
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 324, 371, 393, 412, 419
<223> n = A,T,C or G

```

```

<400> 438
ccacggccct ctcgccctc tcgctgggag cggagcagcg aacagaatcc atcattcacc 60
gggctctcta ctatgacttg atcagcagcc cagacatcca tggtagctat aaggagctcc 120
ttgacacggg caccgcccc cagaagaacc tcaagagtgc ctcccgatc gtctttgaga 180
agaagctgcg cataaaatcc agctttgtgg cacctctgga aaagtcatat gggaccaggc 240
ccagagtcct gacgggcaac cctcgcttgg acctgcaaga gatcaacaac tgggtgcagg 300
cgcagatgaa agggaagctc gccnggtcca caaaggaaat tcccgatgag atcagcattc 360
tccttctcgg ngtggcgcac ttcaaggggc agngggtaac aaagtttgac tncagaaang 420
acttccctcg aggatttcta cttggatgaa gagaggaccg tgagggtccc catgatgtcg 480
gaccc                                             485

```

```

<210> 439
<211> 317
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<223> n = A, T, C or G

gggcggtctt	ccctccatc	gtggggcgcc	ccaggcacca	gggcagtgat	ggtgggcatg	60
ggtcagaagg	attcctatgt	gggcgacgag	gccagagca	agagaggcat	cctcaccctg	120
aagtaccca	tcgagcacgg	catcgnacc	aactgggacg	acatggagaa	aatctggcac	180
cacaccttct	acaatgagct	gcgtgtggct	ccgaggagc	acccgtgct	gctgaccgag	240
gccccctga	acccaaggc	caaccgcnag	aagatgacc	agatcatgtt	tgagaccttc	300
agcaccccaq	ccatqta					317

<213> Homo sapiens

<223> n = A, T, C or G

ccanaaagac	ttcccaggga	agatgcttgg	ctctctgctc	caaggtgggc	catggtatag	60
ggccctcgaa	gggcttgttg	ctggggtgat	cccagggggc	attgtc meta	gtgcacagga	120
ggtggcagca	gggtcaggcg	agtctctgtt	ccaggggacat	caggaggagg	ggtagaagcc	180
tagggagtgt	gcgaggctgc	tgggatgagg	gagctcaggg	gctaccagct	aaccagcctc	240
agctcaatgg	tttctccatc	cttgggtctg	tagtcagcaa	taccttgcaa	cagtgggggtg	300
ttgggggtctc	ggagaagctg	ccagaactcc	ctttctcc			338

<213> Homo sapiens

<223> n = A, T, C or G

ccacacagan	tcaccaagcc	acagacttgt	cttcacaag	cacgttctta	tcttagccac	60
gaagtgacca	agccacacgt	actaaagggt	gaactcaaag	atatgtacag	ggtattaaac	120
aaataccaag	gggaacagtt	aacttcaata	caaggtcgaa	atcagcaaca	agttctacaa	180
tccagnctg	atatcagata	caagcttcaa	ggacaatttc	ttttcgaaag	cttattccag	240
tttcgngagg	ctagcatgag	gtgtgtgcat	ttgccagggg	caaatttcta	ttctcaatta	300
acccatgcag	caaatgctac	ncatggtgcn	gagtcggtt	agaagcattt	gcggtggacg	360
atggaggggc	ccgactcgtc	ttactcctgc	ttgctaatcc	acnngnctg	gaaggnggac	420
agtgaggcca	cggatggagc	caccnatcca	caccgagtn	ttgcgctctg	ggggtgcgat	480
natnttgatc	ttcatggtgc	tgggc				505

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 331, 369

<223> n = A,T,C or G

<400> 442

```
cgccagggtga tacctccgcc ggtgacccag gggctctgcg acacaaggag tctgcatgtc 60
taagtgtctag acatgtctag ctttgtggat acgcggactt tgttgctgct tgcagtaacc 120
ttatgcctag caacatgccca atctttacaa gaggaacccg taagaaaggg cccagccgga 180
gatagaggac cagtgaggaga aaggggtcca ccaggccccc caggcagaga tggatgaagat 240
ggtcccacag gccctcctgg tccacctggt cctcctggcc cccctgggtc cgatgggaac 300
tttgctgctc agtatgatgg aaaaggaggg nggacttggc cctggaccaaa tgggcttaac 360
gggacctana ggccacactg gtgcag 386
```

<210> 443

<211> 404

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 241, 306, 311, 328, 339, 362, 372, 385

<223> n = A,T,C or G

<400> 443

```
cctccctctc agagcttgcc ccagggactc tctggccctc agggttcaat gtattctgac 60
caaggccaag ctttcttggg gctcagggaa aatcacactt tgctacccga agctgtatcc 120
cctcagatgc caggaaggcc gtgatcatct gactccaccc tctgagaca cattctctcc 180
ctgactgttc tgttctaagt cagcggagca ccttaggatg gaggggtgga ggogaggcca 240
ngatgcagcc tctgtgaaca ggtgcctgga ggctgggaaa tgacctgag agggcaggac 300
acagcnaccg ngggcttaag gtgagggngg agagcaagnt tggcccactt tacaattcta 360
gntcagagcc ancccctaac atggnnggca tttattcatt tcgg 404
```

<210> 444

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 58, 69, 87, 195, 250, 275, 286, 302, 305, 317

<223> n = A,T,C or G

<400> 444

```
catgggctat agtgcgctat gttgatctgg tgttcattgct aagttccgca tcaatatngc 60
gacttcttng gagtggggga ccaccangtt gcctaaggag gggatgaacct gcctacgttg 120
gaaatagagc tggatcaaac tctgtgtctc atcagtagta gaattgcacc tgtgaatagc 180
caccgccctc cagcntgggc aacatagcaa gacctgcct cttaagataa aaattggaaa 240
aacttggtan gaaaaaaaagg ctgtttggtc taaanaagtc tggatnnggt ataatgaca 300
cnaancatc atgactnt 318
```

<210> 445

<211> 418  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 288, 354, 375, 389, 400  
 <223> n = A,T,C or G

<400> 445  
 ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagccag 60  
 cttcaattgc caatttgggt gcctctaaag ctttactttt aggaacctct gcaggcgcat 120  
 aggtgccaaa tcccaggaca ggcataaagt gaccatcatt cagcttcaca cactgatatt 180  
 tcgaatccat ttctgtcact agcctggctg gcaaagtgtt ctttcttcct ccctcacagg 240  
 ctataagagc aatgagctgg caacgcccct gagcacactg tctgctgntt aaccaatggc 300  
 atgtgagagg agggacagag gcagctctac acaagctgtg ataaaaattg catncagttc 360  
 aaccagtttc ttacnttatt ctaatgnnga ggaagtgtgn gaagagcaca aagtcaga 418

<210> 446  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 10, 78, 89, 148, 193, 201, 253, 259, 265, 288, 290, 292,  
 298, 318, 342, 343, 346, 354  
 <223> n = A,T,C or G

<400> 446  
 ctgtccaatn acaacaggac cctcactcta ctgagtgtca caaggaatga tgtaggaccc 60  
 tatgagtgtg gaatccanaa cgaattaant gttgaccaca gcgacccagt catcctgaat 120  
 gtcctctatg gcccagaaga cccacacntt tccccctcat acacctatta ccgctccagg 180  
 gtgaacctca gcntctcctg ncatgcagcc tctaaccacac ctgcacagta tccttggtgtg 240  
 attgatggga acntccagna acacnacaca agagctcttt atctccanct tnaactganaa 300  
 gaacagcgcg actctatncc ttccaggggg ggggggtggg gnntgnggac cttncggggc 360  
 c 361

<210> 447  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 7, 9, 105, 121, 192, 202, 213, 299, 301, 305  
 <223> n = A,T,C or G

<400> 447  
 ccagganant ggttccccaa aggggacctc acccgccccg agctctggag ccgctgacgc 60  
 tgcacatccag gacatttgag atgggaatcc aaataggcta cttgnaaaaag acgtgctgca 120  
 ngcagccctg gagagactca tggagttcat tgtacattac tccatctacc gaggcagcgc 180  
 atggcatgac tnaacggctt gnaacaaaca canaaattac caccacaaac attcaggaac 240  
 caaatataat ctgctatggt cacaccacag acaatgcagg aagaggcttt ttattgctng 300

ngtgngtntt caaatcatgt t 321

<210> 448

<211> 325

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 107, 222, 251, 296, 301, 325

<223> n = A,T,C or G

<400> 448

```
ccagcttcaa ctttttagta tagaagatac aggatcacaa aaaggagact acgctttgca 60
aacatagcat caaaattcaa cttttctctt tgcagtttat ccatggngtc agcatacctt 120
gcaagggaag ctacttacat caaataactt ttctatatac atttcctcat tgaccttttc 180
tcaaagaata tcttggtttt gccgaacaaa cataatatag gngtctgcca gatccattcc 240
tggtttctgt ngtgaaggaa aagcaggggg aacaaaataa tatcagggtc tcaatngtga 300
nattattatt taatcatacc ctgan 325
```

<210> 449

<211> 123

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 8, 69, 70

<223> n = A,T,C or G

<400> 449

```
cattaatntt ggaagcgatg gtgtggatta catcagtgtt agggcatggt gtggatatta 60
ttacattann attggaagcg atggtgtgga ttacatcagt gatagggcac ggtgtggata 120
tta 123
```

<210> 450

<211> 328

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 241, 257, 323, 325, 328

<223> n = A,T,C or G

<400> 450

```
ctggcaattt tgagctgccg gttatacacc aaaatgttct gttcagtacc tagctctgct 60
cttttatatt gcttttaaatt tttaaagaaa ttatatgca tggatgtggt tatttgtgca 120
tattttttta caatgcccaa tctgtatgaa taatgtaaac ttcgattttt ttttaaaaaa 180
attagatttt agctggagct ttgactaat gtaaagtaaa tgccaaacta ccgacttgat 240
ngggatgttt ttgtaangtt aattttctaa gactttttca catccaaagt gatgctttgc 300
tttggttttt aactgtttca acntnggn 328
```

<210> 451

<211> 209  
 <212> DNA  
 <213> Homo sapiens

<400> 451  
 ctgccttggt tcaacagaca tgcaaagatc ctaggagaca gtcccatag accttcagac 60  
 attaaaaagg gagccgtaca gtttggttga agcacttcgt cttaccatt tatgcagggg 120  
 cccaggaata cttacacaca gccagaatga gggtcccaaa ggacttacat taattatggc 180  
 tcttgcttcc tttcacaaat gagctgagg 209

<210> 452  
 <211> 457  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8, 290, 392, 416  
 <223> n = A,T,C or G

<400> 452  
 ctgtctantc ctttcaagag ctgtttatag aagcttgaga atggggtaaa aatttctgct 60  
 agcaaaatca agttcttttt gaaattttat cagtaatcca gaatttagta gtccatgcct 120  
 tctcactcag catttagaaa taaaaatgtg gtttcttaaa cgtatatcct ttcattgtata 180  
 tttccacatt tttgtgcttg gatataagat gtatttcttg tagtgaagtt gttttgtaat 240  
 ctactttgta tacattctaa ttatattatt tttctatgta ttttaaattgn atatggctgt 300  
 ttaattcttg aagcattttg ggcttaagat tgccagcacc acacatcaga tgcagtcatt 360  
 gttgctatca gtgtggaatc tgatagagtc tngactccgg ccacttggag ttgtgnactc 420  
 caaagctaag gacagtgatg aggaagatgg catgtgg 457

<210> 453  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<400> 453  
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcttgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaagca gataaggaaa atgactacga gggcgtgatc atgaaagggt 240  
 ataagctctt ctatgatagg ggaagtagcg tcttgta 277

<210> 454  
 <211> 198  
 <212> DNA  
 <213> Homo sapiens

<400> 454  
 gttaaaagat agtaggggga tgatgctaata aatcaggctg tgggtggttg tgttgattca 60  
 aattatgtgt tttttggaga gtcattgtcag ttgtagtaata ataattgttg ggacgattag 120  
 ttttagcatt ggagtaggtt taggttatgt acgtagtcta ggccatatgt gttggagatt 180  
 gagactagta gggctagg 198

<210> 455

147

<211> 608  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 43, 225, 502, 508, 569  
 <223> n = A,T,C or G

<400> 455  
 ctgagcaagc taaggaccag gggcaactag accctaataa tnggtacttt tgaaaatgat 60  
 acaaactacc ttggttgtaa gaagtgcagg ttgaacactt taggagaaca gtcttcaaac 120  
 tggcaattca aaatttccca ttatatgtga ataaaattgg aaggatgta aatgtccatg 180  
 gaaagttact cttgtaagtt aggatgcctt atactgaggc ttanaaatga aagtacactt 240  
 cacaaatgga atagtgaaca taaattacca gaagtcaaga taatagtcac actagtaagg 300  
 taagcaaggt aaattccctt atacacaaaa attattttga tgaccttttt caataatgaa 360  
 tctgaaatga agtgttttaa aaagctccct aaacacaaaa cgaacataaa actgcttaat 420  
 aacttttagag ctcatgtaat attcttgctg aaaacagtta ctgaaattac cagcgaaatg 480  
 atggaatatc tttaaagcag gncactcngt ataactctgga ataatttcac ttgctaaactt 540  
 ttaagaagta ttctctggac tataaatcnt gggcaaatag acttccactt tattattacc 600  
 ccaaatta 608

<210> 456  
 <211> 467  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 358  
 <223> n = A,T,C or G

<400> 456  
 cctggacctg tgtaaacctt caaacactct tttttacatt aggtcgtgaa gttaaatttt 60  
 ttactgtttc tgtgctacag actcttcaaa gggaaatagt taagtcaatt tcaaagaaaa 120  
 tgaccagcac attttttaaaa cattagaaat gatttgactt tgactatcta ctgccaaaaa 180  
 aagggttaagg aatttgtaat gagaagctaa aaactttaag gaattttaag gaactcaaaa 240  
 caaaaactca ttaaagttaa ttaaagttaa ttctacaaat aaagcctctt aatacatctt 300  
 tataatagtc acttaagact taaattcaaa cactagcaaa ccacaaaatc agactgtntg 360  
 actgacatcc aaaagataaa tataaatcaa aatccgaccc cagcattagc caaggggtag 420  
 gtgttcctct tgaggaaggc aggaattcct cttctgccac ctgttgg 467

<210> 457  
 <211> 183  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 10  
 <223> n = A,T,C or G

<400> 457  
 ccaaattttt tacttttaaac actgaaaaca gaggaagtta ataaaaattt taacctataa 60



```
<210> 458
<211> 445
<212> DNA
<213> Homo sapiens
```

<400>	458						
gaaaaaatata	aagccaaaaa	ttggataaaa	tagcactgaa	aaaatgagga	aattattggt	60	
aaccaatttta	ttttaaaagc	ccatcaattt	aatttctggt	ggtgcagaag	ttagaaggta	120	
aagcttgaga	agatgagggt	gtttacgtag	accagaacca	atttagaaga	atacttgaag	180	
ctagaagggg	aagttggtta	aaaatcacat	caaaaagcta	ctaaaaggac	tggtgtaatt	240	
taaaaaaaaac	taaggcagaa	ggttttttga	agagttagaa	gaatttggaa	ggccttaaat	300	
atagtagctt	agtttgaaaa	atgngaagga	ctttcgtaac	ggaagtaatt	caagatcaag	360	
agtaattacc	ancttaatgt	ttttggcntt	ggactntgag	ttaagattat	tttttaaatc	420	
ctgaggacta	ncattaatgg	gacag				445	

```
<220>
<221> misc_feature
<222> 10, 345, 363, 400, 401
<223> n = A,T,C or G
```

<400>	459					
cctatgatan	cttctctagc	tatcatactc	caatcagcaa	aaaatgagaa	aatgttgaga	60
aatagaagat	aattcctcat	ttaaggccac	cttctagaat	ttgtgcttaa	gattctgctt	120
tcttctcatg	ggccagcact	tgggcaactg	gcaaaaatta	ggtgtacagg	gatctaggta	180
atactgttta	tttgagcaat	aatatattgt	gctaacgttc	aggcatccta	ttactgagaa	240
ataagggaaa	atgagtgtaa	agtacaacta	agagtctcgg	cgacagggaa	aaataaccatc	300
agttaaatat	ccatagtctt	agagcattta	tgtaaaactg	caatntgaat	cctgcaatac	360
atnttggtt	tttcctcag	tgataccatg	tgagggaagn	ngctctgtca	aggcggggcgg	420
gataga						426

```
<210> 460
<211> 348
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 147, 184, 203, 288, 294, 308, 312, 313, 316, 333, 345, 347
<223> n = A,T,C or G
```

<400> 460

```
ccaaatttta aaatgttatt ttcatatca ttataacct tgcacaatc cacttaaaga 60
agtttggtta tatttcactg aaaattttct tccagagtag gtttttttcc gtgggttggg 120
gggtaacttt actacaatta gtaagtntgg tgcagaattt catgcaaag aggagtgcag 180
cagngtgata atttaaacat atntaaacaa aaacaaaaaa aatgaatgca caaacttgct 240
gctgcttaga tctactgcagc ttctaggacc cggtttcttt tactgatnta aancaaaac 300
aaaaaanta annacnttgt gcctgaaatg aancttggtt tttntna 348
```

<210> 461

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 370

<223> n = A,T,C or G

<400> 461

```
ccactaagac agaacggaat ctagtagaag tgcaccaatg cttcagtccc tctactcag 60
catggtgagc agtgggtcaat ctgtgccctg tggaatgatg ggcagataat tctggcatgt 120
gtaaataata ataaataatt cacttggtgc aggcagtatg tctatgaatt aaaacctagt 180
gtgtacacag tgcctacatg tggtacagcc ccacagtagg aatctacacc aaaatattta 240
ttagaaggaa tttgggtccgt actacatcac gctttccgga gggtaaaaaa taaagtccat 300
ctatagacat ttcaccacag acccagagac tgagtctggc taaaacctgc aaaatgtcta 360
taacaaaagn ggatggct 378
```

<210> 462

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 59, 72, 81, 99, 105, 112, 120, 137, 140, 155, 158, 163, 182, 190

<223> n = A,T,C or G

<400> 462

```
gcgaggcca cactattaaa agctgttggg taattgaagg tgatataaaa tgactgtcnt 60
catttgaggt gngcagcaca nttacttcat gttgtcang ttanaacaa tntccctgn 120
aagttctcac acagatnggn agaatcata cctantntg gtnaatcact atggcagccg 180
tngaagaatn taagaga 197
```

<210> 463

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 13, 18, 26, 28, 43, 164, 175, 200, 201, 203, 219, 222, 230, 246, 262, 263, 267

<223> n = A,T,C or G

```

<400> 463
cataagtgat gangaggnaa aatcantnaa taagcctaca acntagaata cattaaaaact 60
tgcacatata catgttcaca gcatgtatac aatgataatc cctacgggtt aaccaagtta 120
tggttccctt ctacagcaga cacaaaacca aggtgaacta ggtnggcaga tgtanaggga 180
ataccaaaaa aagggtaatn ngntcactga ttctgaagna tntgactgan catactgagc 240
ttctgnactt tgggaatgca tnnagгнаac aatatcttg 279

```

```

<210> 464
<211> 552
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 266, 287, 395, 444, 460, 481, 487, 493, 512, 520, 532, 549
<223> n = A,T,C or G

```

```

<400> 464
gatgggttga taggtgcagc aaaccaccct ggcgcatgtt taccaatgta acaaacctgc 60
acatcctgca caggtactcc aaaactaaaa gtaaaaaaat ctaaaagaaa aaagaaaaag 120
aattaaaccc aaaatcactt ccccatctgg acttgattta gatgaaaagc ttctggactt 180
tgagctgatg ctatagtggg ttgaaaattt tggggtcctc agaaggggat gaggatatat 240
tgcatgagag agcaacatga atcatngaga gccagagtat agagagnggt gggtagactg 300
taggagagcc ctcaatgatc ccggtgtgtc tgtattcgcg ttgcacttac ttgtataata 360
tggcagatgg gatgtgatgt cactttcaag attangttat aaatagacta tggcttcaat 420
cagagggttt tcttctctgt ctanctctct tttgggtagn ttcattctga gagaaagcca 480
nacctngcc gcnaccacg ctaaggggcg anttcagcn cactggcgcg cngttactag 540
tggatccgng ct 552

```

```

<210> 465
<211> 444
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 124, 326, 360, 369, 388, 394, 399, 413, 415, 438, 443
<223> n = A,T,C or G

```

```

<400> 465
ccactcttgg tagaaacctt gaaactttca ccttgctggg ctttagcaaa gtttcctttt 60
acagttctgt ttatgagctt cagctactga taaagcactt cctgaacttc tctattatca 120
tagngaccct ctgaataacc tgagtgactg gctcggcaat tcgctttata accattctta 180
ttcccaaagt tggagcacat aaacatttag atgtcttttc ctgtaaaata ttctagacat 240
ttacccaaac tctagttcaa catatactca acttgcactg tatatctccc tgcttttttg 300
agacagagaa gaaattcagg aggtgnccca tctccagagt ttctctgttg gaaagcagcn 360
atcaagaanc ctttaaaaaa ttggtgtnaa gctntgcnc ctgcagaaat gcntngcccc 420
acattattct tctggggnaa agna 444

```

```

<210> 466
<211> 381
<212> DNA
<213> Homo sapiens

```

<220>  
 <221> misc\_feature  
 <222> 265, 325, 326, 338  
 <223> n = A,T,C or G

<400> 466  
 cctactatgg gtgttaattt tttactctct ctacaagggt ttttcctagt gtccaaagag 60  
 ctgttcctct ttggactaac agttaaattt acaaggggat ttagagggtt ctgtgggcaa 120  
 atttaaagtt gaactaagat tctatcttgg acaaccagct atcaccaggc tcggtagggt 180  
 tgtcgccctct acctataaat cttcccacta ttttgctaca tagacgggtg tgctctttta 240  
 gctgttctta ggtagctcgt ctggnttcgg ggtcttagc tttggctctc cttgcaaagt 300  
 tatttctagt taattcatta tgcannaggt ataggggnta gtcccttgcta tattatgctt 360  
 ggttataatt tttcatcttt c 381

<210> 467  
 <211> 95  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 7, 11, 15, 46, 69, 74, 77  
 <223> n = A,T,C or G

<400> 467  
 cctatanatt ntggnttgta tactgggtcc tgaaaaccct cttggngctc tgtttttaag 60  
 gagctgaanc caangancgc caataataat acttt 95

<210> 468  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

<400> 468  
 cagtgggtct ctgatgcctt gcctgcagca gaaggaggga gcagagatca agaggaagga 60  
 aaaaatcata tgtacttatt tgaaggtaaa gattattcta aagagcccag taaggaagac 120  
 agaaaatcat ttgaacaact ggtaaaccct cagaaaacc ttttgagaaa agctagtcaa 180  
 gagggccgat cactccgaaa taaaggcagt gttctcatcc cagg 224

<210> 469  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<400> 469  
 ctgagttcta gttcaaaagc tttatcctta acttcgtcat gtactatgta aattctagaa 60  
 tagaaaaggg aaaggtaaga ttttggtaac ctccaaacat tgaagtagtt cacagaccca 120  
 aagtcagtac aaattagaat gtccatccat aataaaagta tctataaaat tacacagaca 180  
 cattctacat agtatttaac attagagaag acaaattaca cagggactga aataaaatga 240  
 aacatctact ctcccgacaa atgttgaata tacctaatac acccaagttc agtttatatt 300  
 tgcacattgc tttagagata taacttggct gggcacagt gctcacacct gtaatcccaa 360  
 cactttggga gaccaaggcg gatggatcac ttgaggtcag ttcgagacta gcctgg 416

<210> 470  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<400> 470  
 caccttttaa ctgtatcaca aagtctgttg ctgtgggttac agcctttgtt tccagtgatg 60  
 ttttgtccat gctttccccc aacccttaac aatgggttact caaaagaatg aaataatgag 120  
 tcattcattc gggaatatgt taaaatatcc ctctttatca ttacatttca ctgcttagaa 180  
 actaggctgt aattcaaggc aacagttaag tctgagaact gttaaaaaaa tctttgattt 240  
 tttttcattt ttaagaaaaa cctgcctatt taattgttca gacttgtaag aggttcttca 300  
 attacatcct ttttgggttaa tgtattattt ctggaacaag tagataaaat tctacgcagt 360  
 aagcataata aaaatc 376

<210> 471  
 <211> 357  
 <212> DNA  
 <213> Homo sapiens

<400> 471  
 ggcttcgtat aatggttctt ttgtcacccc tgatcgacga tttcgctacc cgtacaactc 60  
 tgacaaggga acgaaatgct tctgtgtatt cacctagtgg tctgtgaac agaagaacaa 120  
 caactccacc ggatagtgga gtactgtttg aagggttagg catttcaaca agacctagag 180  
 atgttgaaat tcctcagttt atgagacaga ttgcagtaag gaggccaaact acggcagatg 240  
 aaagatcttt gcggaaaatt caagaacaag atattattaa ttttagacga actctttacc 300  
 gtgctggtgc tgcagttaga aatattgaag atggtggccg ctacagggat atttcag 357

<210> 472  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2, 29, 213, 428, 515  
 <223> n = A,T,C or G

<400> 472  
 cngagatgac atttacaatc tcttgaaang cagcagatgg cactctggtg cttcctatga 60  
 agcaacatgc ttgaaatcaa gggccaacaa ttgttgtagg aaagcaaaat atacctctaa 120  
 cacctacgtt taccaaaaaa gctgacatct caaactctga gttgttgaga ctcaaatttc 180  
 tcatccccaa agaagcctat tacggtagtg tgntggatgc tttttgtatc tctgataggc 240  
 aggcaactata atggggggaa atacttctga ataaaaacat tggctgtctt gcaactgtgc 300  
 atataatgtc tattcaaggg ggcagtgtgc ctagcatgat cctgaaatgt tgagataaaa 360  
 ggaagttggc attaaagcac tatttgtctt atatgaaaag agtgactcta tcttccagta 420  
 aacaagantt cctgcaatga aaaagaaatt ttttccttca ttatctataa actatacaaa 480  
 ataaccttcc tttttaacct aagactcaaa cattnatatt tgattttatt ctatttgata 540  
 ccaattggta tgtccag 557

<210> 473  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 473

```
cctccatcaa cagaaaggat aaagaccctt tcgggtctcc tcattaattc tgaactggaa 60
aagccccaga aagtccggaa agacaaggaa ggaacacctc cacttacaaa agaagataag 120
acagttgtca gacaaagccc tcgaaggatt aagccagtta ggattattcc ttcttcaaaa 180
aggacagatg caaccattgc taagcaactc ttacagaggg caaaaaaggg ggctcaaaag 240
aaaattgaaa aagaagcagc tcag                                     264
```

&lt;210&gt; 474

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 474

```
aattcagctt ccagaggccc ttattagtcc ttgttgacag aaacatagat ttggcaactc 60
ctttacatca tacttgagca tatcaagcat tggtgacga tgtactggat ttccatttaa 120
acagggttaa tttggaagaa tcttcaggag tggaaaactc tccag                                     165
```

&lt;210&gt; 475

&lt;211&gt; 417

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 370, 372

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 475

```
aagtctcttt cttgttttaa acacattcct gataacttct aaagatgacc aaaataaaac 60
agaatatcta cagagatcat tttctgaatt tttgtacat ccaaggataa caacataaaa 120
aaaataaaac tggacagcat tccacatcca agtgcacaga accatttttg caagattaaa 180
taatgtaaac attgggaaca gccaaatcag cgaagaatgc caacacctca aaacacctgg 240
tggtgcgctt tcattaagtg gttcaaaatc cagatctata attgcgcaat attcacgta 300
tataaaaaga aatggatatt aattttgaca aatagctgca actgagactt ctttttattt 360
ctttatatgn gnatatagtg aatttttatt atttttaaaa ttttatttat tttttta 417
```

&lt;210&gt; 476

&lt;211&gt; 321

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 36, 87, 102, 158, 170, 193, 196, 263, 291

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 476

```
catttaataa caaaaacaac ctgtacggaa aaccnaagg caaccacata gcatatgtaa 60
aatgtgcaaa tacactttta aatgcangtt attctatagc anttgcaaga tagaatttca 120
ctgtaattag ggaatctagc tcctcctaac ttaatagnct tttgcatgtn tagacaatgc 180
aattctacaa ggnacnactc agcgttgatg ctaaagtatg aaacacatcc tcagattatt 240
catccgaaaa tattaaaata gcntcatgtt ttattattct ttaatgagtc ntgagctcat 300
ttctaaagct tcataaagca t                                     321
```

<210> 477  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 546  
 <223> n = A,T,C or G

<400> 477  
 gctgtggtta tattgtaaat gaagcatcta acatgtgcac aacttgcaac aaaaactcct 60  
 tggactttta atctgtcttt ctacagtttc atgtgctgat tgatctgact gatcacacag 120  
 gcacccttca ttcctgtagt ctacacaggaa gtgttgctga ggagactttg ggctgcacgg 180  
 tacatgagtt tcttgcaatg acaaatgaac agaaaacagc attaaagtgg caattcctct 240  
 tggaaagaag caaaatttat ttaaaattcg ttctatcaca cagagcaagg agtggattga 300  
 aaattagtgat actctcgtgc aagcttgacg atcctactga ggcaagcaga aacttgtctg 360  
 gacaaagaca tgttttaaac ggtctatcat tttgaactct ggaaaagtat aagagtttta 420  
 actcccttta aaatggaata ttaatttgaa aattatgggg aaaattgcat tttgtttaca 480  
 tgtggtgaac atgtttctag aaattggtat ggcgggaagg gggctgggtg agtctgaagg 540  
 acctcn 546

<210> 478  
 <211> 100  
 <212> DNA  
 <213> Homo sapiens

<400> 478  
 aagaaaagtg gtaaaatcaa gtcttcttac aagagggagt gtataaacct tggttgtgat 60  
 gttgactttg attttgctgg acctgcaatc catgggtcag 100

<210> 479  
 <211> 508  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2, 3, 423, 505  
 <223> n = A,T,C or G

<400> 479  
 gnnttccaaa ttcttctaac tcttccaaaa gccttctgcc ttagtttttt ttaaattaca 60  
 ccagtccttt tagtagcttt ttgatgtgat ttttaaccaa ctcccccttc tagcttcaag 120  
 tattcttcta aattggctct ggtctacgta aacacctca tcttctcaag ctttaccttc 180  
 taacttctgc accaccagaa attaaattga tgggctttta aaataaattg gttaccaata 240  
 atttctcat tttttcagtg ctattttatc caatttttgg ctttatattt ttctatcttc 300  
 tatacttctc caatacttgt cttagcttgt ttttcatttt ctatctgaaa ctcttgacaa 360  
 tatcttctaa tttccctatc ttctctatcc ttttcttcgc ctccccgtac ttctgcttcc 420  
 agntttccac ttcaaacttc tatcttctcc aaattgttca tcttaccact cccaataatc 480  
 tttccatttt cgtgtagcac ctggncag 508

<210> 480  
 <211> 81

<212> DNA  
 <213> Homo sapiens

<400> 480  
 ggtgcccttt tcctaact cacaacaaa ctaactaata ctaacatctc agacgctcag 60  
 gaaatagata aggaaaatga c 81

<210> 481  
 <211> 306  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 30  
 <223> n = A,T,C or G

<400> 481  
 tcgccttcgg ccgccgggca ggtaggggn acaagacgct acttccccta tcatagaaga 60  
 gcttatcacc ttcatgac acgccctcat agtcattttc cttatctgct tcctagtctt 120  
 gtatgccctt ttctaacac tcacaacaaa actaactaat actaacatct cagacgctca 180  
 ggggaatagaa accgtctgaa ctatcctgcc cgccatcatc ctagtctctca tcgccctccc 240  
 atccctacgc atcctttaca taacagacga ggtcaacgat ccctccctta ccatcaaate 300  
 aattgg 306

<210> 482  
 <211> 582  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 92, 155, 262, 369, 393, 413, 430, 451, 452, 460, 463, 467,  
 471, 474, 486, 516, 554, 558, 562, 565, 569  
 <223> n = A,T,C or G

<400> 482  
 ggggggaaca gtcattatac attatttaga ctcatctcct cttccagtgc ccttatgatt 60  
 atttcctacc ttaccattg atcttaaaact gngcaggcta aaaagaggaa ccagaactcc 120  
 cttaagcact tttaagacta tttaaaaaat aaagntttgt tggcattgaa gagtaagctg 180  
 cttaagggac tgaatgaaaa gatagtaccc tttgtggctg tatgaagaga gaaactgaat 240  
 ttctatccaa gagaccttaa tntagcctat tagggaatta tcttcccca aagtacaagt 300  
 aattttgcac tgcaggagaa ggataagtag atttgattta catcacattt tatacacacc 360  
 tttcaagang gagaaatctg cttcataaat agnaggaatc tatgcttaaa ctnaacattt 420  
 aatggtgacn tcttacaaca gccttgaaaa nnattggaan tcngacntga ngngggaaac 480  
 tggaanaaag aatatctttc tcttctgcat cctttnatcc tcaaacttag catggattca 540  
 cacgctgagg aaangttngg tnacnaccng aacatttaga ta 582

<210> 483  
 <211> 275  
 <212> DNA  
 <213> Homo sapiens

<220>



<221> misc\_feature  
 <222> 251  
 <223> n = A,T,C or G

<400> 483  
 gcctcactaa aataacagat ttcagtatag ccaagttcat cagaaagacc caaatggaat 60  
 gatttacaaa atagaacact ttaaaccagg tcagtcctat ctttttgtag ctgaaggcta 120  
 tcagtcataa cacaatttcg cgtacacctc tgctcattat ggaattacac ttaaaacgaa 180  
 tctcaagagg gtgaccattg ttgtttcaga taccatccct aaggagagtg gttaacagga 240  
 agattgccag ngttactgat ggaaagaagc gcttg 275

<210> 484  
 <211> 434  
 <212> DNA  
 <213> Homo sapiens

<400> 484  
 catatttcca caggccaatt tctttctggt tttctgctaa gctatttcag catttttagct 60  
 tttcctcttt gctttgttta ctcatgattg ccagatggct acgttacctc taagcatcag 120  
 atcctcacia attaatgggt aaatgtaagg gagggatttt actctcttgc attaaaaaaa 180  
 agctttattg agatataatt tactgtaaca ttgactcatt taaagtatgc tagtcaatag 240  
 accaaatctt gaataaactc ccattcacia ttgctacaaa gggaataaaa tagctgggaa 300  
 tatagctaac aagggaagtg aagggcctct tcaaggagaa ctacaaacca ctgctcaaga 360  
 aataagagag gatacaaaca aatggaaaaa cattccatgc tcatgaatag gaagaatcaa 420  
 tatcgtgaaa atgg 434

<210> 485  
 <211> 291  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1  
 <223> n = A,T,C or G

<400> 485  
 ncaccactgc agccctacat acagttgaaa aaaaattcca ttctgttaac atttgtttta 60  
 taagttttca cgcaatacac aaaaaacccc tctgcacttc ttgtaaagaa caaaaaagat 120  
 acacaacagt taagcgtaaa gatcacaggc aatagcattc aaacatggat gtgggtagag 180  
 aaaggagtac ctggcatgag tacctgctta gtttgactga atccttgatt ttttaatttg 240  
 cttttcatgg gccgctcaca acaccaacgc tgtgtgaggt atggtagtca g 291

<210> 486  
 <211> 274  
 <212> DNA  
 <213> Homo sapiens

<400> 486  
 ctgtaatat gtagttgctc cagaatgtca agggcagctt acggagatgt cactggagca 60  
 gcacgctcag agacagtga ctagcatttg aatacacaag tccaagtcta ctgtgttgct 120  
 aggggtgcag aaccogtttc tttgtatgag agaggtcaaa gggttggttt cctgggagaa 180  
 attagttttg cattaaagta ggagtagtgc atgttttctt ctgttatccc cctgattgtt 240  
 ctgtaactag ttgctctcat ttttaatttc ctgg 274

<210> 487  
 <211> 184  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 86, 132, 137  
 <223> n = A,T,C or G

<400> 487  
 tggcaccaag attctcagct cacgggtacca gcatctgatt gtcggactac ctgctgcttt 60  
 ccctgatatt tatacatgat attcgnaaaa tgtaaagaag ctattattca tacagacatc 120  
 tagagaagga gngaagnttt taaaaaaata aaaaaatact tatttcaagc tttagctgtg 180  
 ttct 184

<210> 488  
 <211> 393  
 <212> DNA  
 <213> Homo sapiens

<400> 488  
 ctgcattttt attgcatctt gcagatgaac tggaaaatct catttttaca cagaactggg 60  
 acagaagacc accatattca ctgaggctta aatttgcagt ttccactaat gacattttga 120  
 tttcccaaca gagatacttc tggctcttact gcacagtctt ttaagagaaa tacttccatt 180  
 atgccacatt gtccttgatc cgtaagtgat gtgttaaggt gcttcaaagg aactctgacc 240  
 tctgaagtac ttgagctact ttagtatgtc cagcctattg ctttttggtt tagtgtgtca 300  
 ccataaatat caggggcata aaaggctatc tattcttaat tcaaggataa aacagaagaa 360  
 gcttggtgga taaaacaata gttcaagatc cag 393

<210> 489  
 <211> 607  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 46, 270, 440, 515, 558, 579, 580, 602  
 <223> n = A,T,C or G

<400> 489  
 gtgcttatgt acttaagggg aactactcta actgggtgaa gagtangatg aagcatccat 60  
 gtccttataa aggatatgaa ctcatccttt tttatggctg catagtattc catggtgtat 120  
 atatgccaca ttttcttaat ccagctctatc atcgatggat atttgggttg gttccaagtc 180  
 tttgctattg tgaatagtg cgcaatgaac atacatgtgc atgtgtcttt atagcagcat 240  
 gatttataat cctttgggta tataccagn aatgggatag ctgggtcaaa tggatattct 300  
 agttctagat ccttggtgaa ttgccacact gtcttccaca atggttgaac tagtttacag 360  
 tcccaccaac agtgtaaaag tggctctatt tctccacatc atctccagca cctgttggtt 420  
 cctgactttt taatgattgn cattccaact ggtgtgagat ggtatatcac cgtgggtttg 480  
 atttgcattt ccctgatggc cagtgatgat gaacntttt tcatgtggtt tttggetgca 540  
 taaatggcct gccttttnta cttctataaa atttttcann tcttattatt attcctgggg 600  
 gnttaag 607

<210> 490  
 <211> 179  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 76, 102, 131, 169  
 <223> n = A,T,C or G

<400> 490  
 cttctaggaa tactagtata tcgctcacac ctcatatcct ccctactatg cctagaagga 60  
 ataatactat cactgntcat tatagctact ccataaacc tnaacaccca ctccctctta 120  
 gccaatattg ngcctattgc catactagtc tttgccgcct gcgaagcanc ggtaggacc 179

<210> 491  
 <211> 399  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 41, 156, 371  
 <223> n = A,T,C or G

<400> 491  
 cctctacctg taatcacatt aatttttcta aagacagggg nggtgttttg aagataaatg 60  
 tcattagtct atgataatag catcatagga caattagcca ttttagactt gaccatattt 120  
 tctcttttta gcatatagcc atcttgatat ttagngggga gactactcca atggagcaac 180  
 agtttcattt tacatgattg gatttagaaa ttacaaaatt ttaaaactcat aagaattcta 240  
 aataatttga aaatggaaac atttgacca cagtctagca gcataaatac atttataaaa 300  
 tacttcattg ttgatcttag gtcattgatt taaaacagaa tttggtgact atgggcaggt 360  
 ggagggggcc ngtgaggaag gtataaaaga gaaatcttt 399

<210> 492  
 <211> 482  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 39  
 <223> n = A,T,C or G

<400> 492  
 ctccacctta ctaccagaca gccttagcca aaccatttnc ccaaataaag tataggcgat 60  
 agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac 120  
 caagcataat atagcaagga ctaaccctta taccttctgc ataatagaatt aactagaaat 180  
 aactttgcaa ggggagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag 240  
 ctaaaagagc acaccgctct atgtagcaaa atagtgggaa gatttatagg tagaggcgac 300  
 aaacctaccg agcctggtga tagctggttg tccaagatag aatcttagtt caactttaaa 360  
 tttgccca gaaccctcta aatcccttg taaatttaac tgtagtcca aagaggaaca 420  
 gctctttgga cactaggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta 480  
 gg 482

<210> 493  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 35, 37  
 <223> n = A,T,C or G

<400> 493  
 cataaatatt atactagcat ttaccatctc acttngngga atgctagtat atcgctcaca 60  
 cctcatatcc tccctactat gcctagaagg aataatacta tcactgttca ttatagctac 120  
 tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180  
 ctttgccgcc tgcgaagcag cggtagg 207

<210> 494  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 38  
 <223> n = A,T,C or G

<400> 494  
 ccaattgatt tgatggtaag ggagggatcg ttgacctngt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctagggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240  
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac cta 283

<210> 495  
 <211> 590  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 584  
 <223> n = A,T,C or G

<400> 495  
 tatgtatata attttcttag ttactagcat agagaaatta ctgatttaaa aaaacatttc 60  
 aaattctagc atgttgtagg attctattgc cttttctaaa aagtacatct tgcttatccg 120  
 atttctaaca aaactattta atttgaagaa gggagaatga atttggataa aaagcaaaaa 180  
 tttaaaggta ctcaaattta ggcaaaccat taaagcaatc ttagtttaca gttaatggg 240  
 tagaatggtc aacactttct tcaggttagt tcatggagtg gatatgcatt gatagaacaa 300  
 cttagagatg cttttacagt tgagaaagct cattatattt gttatcttta agaatacagc 360  
 tattttattc atatgtttgt tctttaagaa gaccaaagag ccctgcaaata gaatgttgat 420  
 ttgttttttt gtttgtttta tttttttgta gagataagat ctcactttgt tatgttgccc 480  
 aggctgggtct caaactctca acttgaagtg atctgcccac ctcagcctcc caaagtgggtg 540

ggattacagg catgagccac cgcacctgga cctgccccggg cggncgctcg 590

<210> 496

<211> 307

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 20, 22, 25, 34, 118, 119, 155, 167, 169, 178, 188, 201, 212, 230, 245, 259, 260, 268, 300, 307

<223> n = A,T,C or G

<400> 496

```

ggagattagt atagagaggn anacnttttt tcgngatatt tggtcacatg gataagtggc 60
gctggcttgc catgattgtg aggggtagga gccaggtagt tagtattagg aggggggng 120
ttagggggtc tgaggagaag gttggggaac agctnaatag gttgttngnt gatttggnta 180
aaaaacanta gggggatgat nctaataatt antgctgtgg gtggttgtgn tgattcaa 240
tatngctttt ttcggagann catgtcangt ggtagtaaata ataattgttg ggaccattan 300
ttcttan 307

```

<210> 497

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 34, 35, 37, 124, 150, 176, 179, 183, 185, 188, 200, 203, 213

<223> n = A,T,C or G

<400> 497

```

catttttctc ttggttttctt cagttaagtc aaanngncac gttcctcttt ccccatatat 60
tcatatattt ttgctcgtaa gtgtatttct tgagctgttt tcatgttggt tatttcctgt 120
ctgngaaatg gtgttttttt ttgttgttgn tggttttttt tttttttttt aaactnggna 180
ccncaanttt gaaaaaatgn ttntttttcc ctnaca 216

```

<210> 498

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 36, 37, 155, 227, 239, 242, 253, 279, 283, 286, 325, 330, 337, 340, 349, 356

<223> n = A,T,C or G

<400> 498

```

gaattttctg gcaccttttc tcgctagaga agattnnngtg tgactggggtt gcctataagc 60
catatagata caaactttta tctctaatac caagtcttag agggatatat taatagatct 120
aataaattta ttcttagact tattgtttca tgggntagtg agtctttgct actggagaca 180
atacagactt gtcagttttt ttaaaaaaaaa aaaatttgcc aagctancac attaaaaana 240
tntcctaagc ctntcatttt atgaggatga ttataaacnt ttntgngata aatatcacca 300

```

```
<210> 499
<211> 215
<212> DNA
<213> Homo sapiens
```

```
<400> 499
ccacnaaagc agaagcttaa agcatagtag taaagaggnn aaaaagaagg acgaaaataa 60
atcagatgac aaggatggta aagaagttga cagtatgcat gaaaaggcca gaggtaatag 120
ttcactcatg gaaaagaaat taagtagaag gttgtgcgaa aatcggagag gaagcttgtc 180
acaaaaaaaa aaaaaaaaaa aaaaaaaaaa gttttt
```

```
<210> 500
<211> 489
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 38, 239  
<223> n = A,T,C or G
```

<400>	500						
ccactacgat	aagcaggtag	ctggggttttg	tagtgagntt	gtcccttaag	ttacaggaac	60	
tctccttata	atagacactt	catttttcta	gtccatccct	catgaaaaat	gactgaccac	120	
tgctgggcag	caggagggat	gatgaccaac	taattcccaa	accccagttc	cattggtacc	180	
agccttgggg	aaccacctac	acttgagcca	caattggttt	tgaagtgoat	ttacaaggnt	240	
tgtctacttt	cagttcttta	ctttttacat	gctgacacat	acatacactg	cctaaataga	300	
tctctttcag	aaacaatcct	cagataacgc	atagcaaaat	ggagatggag	acatgatttc	360	
tcatgcaaca	gcttctctaa	ttatacctta	gaaatgttct	cctttttatc	atcaaactctg	420	
ctcaagaagg	gctttttata	gtagaataat	atcagtggat	gaaaacagct	taacatttta	480	
ccatgctta						489	

```
<210> 501
<211> 286
<212> DNA
<213> Homo sapiens
```

```

<400> 501
aaaaacactc aaacacagcc ttggagggag gagtcagttt taaaagactc ttataaaagt 60
aatatactgc tagctctgaa gaatcggagg ctaaaaatcat ctcttcaagt cccaggggaa 120
tcccaaagaa ctccagggga aggtgggatg ggccagagag ctctggaagc ttccaggtct 180
gttgcaagcc tcaactggta cacagtaggc tcttcagggt ctgtcaggaa cccaggagcc 240
tcccctagca cacagtaggc tcacaaaaag ggagcactgc tgctgg
286

```

<210>	502
<211>	168

```
<220>  
<221> misc_feature  
<222> 38  
<223> n = A,T,C or G
```

```
<210> 503
<211> 173
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 34, 35, 43
<223> n = A,T,C or G
```

```
<210> 504
<211> 310
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 127, 259, 273  
<223> n = A,T,C or G
```

```
<210> 505
<211> 530
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 527
```

```
<210> 506
<211> 352
<212> DNA
<213> Homo sapiens
```

```
<400> 506
cttgaacgct ttcttaattg gtggctgctt ttaggcggta ctatgggtgn taaatttttt 60
actctctcta caagggtttt tctagtgtc caagagctg ttctcttttg gactaacagt 120
taaatttaca aggggattta gagggttctg tgggcaaatt taaagttgaa ctaanattct 180
atcttgga accagctatc accaggctcg gtaggtttgt cgctctacc tataaatctt 240
ccactattt tgctacatag acgggtgtgc tcttttagct gttcttaggt agctcgtctg 300
gtttcgggg tcttagcttt ggctctcctt gcaaanntat ttctagttaa tt 352
```

```
<210> 507
<211> 370
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 35, 186
<223> n = A,T,C or G
```

```

<400> 507
cctaactaga tcttatcaga atagggggga agggngtcgg ttcatcctta ttgagtgtta 60
atgaccctgt aagatgtaat ttcttttatt tcattctgtt acctagaaaa tctatcacag 120
ccttgtagta ttgattgctc aatctataaa gagctcagtt tacagcatga ctgttagtaa 180
cagggnattt ttaatgagtg actcttcaac acctcagagt ttcactaaat tccaacccat 240
cagcccagta gtctaacatt aagggtctta ggaaatgaga acttatcacc tttccttattc 300
atgaaaaggt aacctccagg taaccaaaaa tagaaattcc tctgtgttog ttttttatag 360
aaattactgg                                     370

```

```
<210> 508
<211> 129
<212> DNA
<213> Homo sapiens
```





```
ccnattgatt tgatggtaag ggaggggatcg ttgnggctcg tctgttatgt aaaggatgcg 60
tacggatggg agggcgatga ggactaggat gatggcgggc aggatagttc agacggtttc 120
tatttcctga gcgtctgaga tgttagtatt agttagtttt gttgtaagng ttaggaaaag 180
ggcatacagg actaggaagc acgataagga aaatgactat gagggcgnga tcatgaaagg 240
tgataagctc ttct 254
```

```
<210> 512
<211> 269
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 38, 49, 103
<223> n = A,T,C or G
```

```
<400> 512
cctacctgta aactacagta ctttatatat ctatgggntt aataaaaaana aaatccacaa 60
atcttaaaaa ggaactttta atgcagggct atattgaatt ggnaaactgc aacacaaact 120
ggcgcaacat aggtaaatga ataccaatct cactctatgt gatgcaagca tgctactttc 180
ccactaattt aaattacttt caaccactat gagccagaat gcattgctga accttaaact 240
gcactttaaa aagtaacatc ttggcctaa 269
```

```
<210> 513
<211> 266
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 34, 79, 137, 149, 154, 157, 217, 245, 251
<223> n = A,T,C or G
```

```
<400> 513
ggaggggggt tgtagggggg tcggaggaga aggntgggga acagctaaat aggttggtgt 60
tgatttggtt aaaaaatant agggggatga tgctaataat taggctgtgg gtggttgtgt 120
tgattcaaat tatgtgnttt ttggagagnc atgncantgg tagtaatata attgttgaga 180
cgattagttt tagcattgga gtaggtttag gttatgnacc gtactctagg ccatatgtgt 240
tgganattga nactagtagg gctagg 266
```

```
<210> 514
<211> 271
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 9, 32, 33, 39, 51, 52, 61, 62, 65, 75, 108, 112, 120, 123,
127, 129, 132, 141, 142, 157, 173, 179, 210, 219, 220, 224,
231, 232, 235, 240, 242, 245, 251, 259, 266
<223> n = A,T,C or G
```

```
<400> 514
acatgcaana aatcgagaat cttaaaaaac annacgaanc tgccctggaa nncttactgg 60
```

```

nntangatat ttatnttgcg gctgagatac ttgaacaact tcggatcnga antagacaan 120
aanggnant tntatactgc nncagagggt acacagntca ttgtattaga gangaacana 180
tgggtctggt gttcacacat tggggggaan atgggcgtnn acangagagg nnganaaacn 240
anganagcct ncctgggtng cataanaaaa a 271

```

```

<210> 515
<211> 328
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 23, 25, 32, 64, 112, 125, 149, 157, 202, 216, 245, 256, 267,
297
<223> n = A,T,C or G

```

```

<400> 515
ccaatgaggg gcaaagtgag cgncnagaag angttttgac tgaaataaat caaacacaaa 60
aatntaagtt cacagtgaca gtttaaacia aatccaaaca aactaacaac anaaacaccc 120
cttgntttgc ctctagtggg aggtgggana acacaanctc gtcctaaaaa ttgactagta 180
aaggggaaaa cccggtcatt tncctactct ttccangaaa tatctaagtc aagaaagaac 240
ttctnctcat tatacngaag gaatttngaa aaatgatgta tttttggaac acctaantga 300
aatactggaa cctgggcaag ttcaccac 328

```

```

<210> 516
<211> 220
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 5, 52, 118, 162, 168, 174, 195
<223> n = A,T,C or G

```

```

<400> 516
ncctnagttg aaggacccca tgtacatata ggccagggga gcagtactag gntaactaga 60
aggatctcat ccccatatgt gggctcattt caagtctatg gatgactacc ttcattgntg 120
tgtgagagat ggtttcaccc cttgaaaata tgggcacttc ancataanat agcnaaatct 180
ttataatgat caatncatcc tacctccttt tacatgcatg 220

```

```

<210> 517
<211> 296
<212> DNA
<213> Homo sapiens

```

```

<400> 517
tgcgatttct tccttggtgt ttgctttggt ctgtgttcaa tccagagagc ttaaattgtc 60
attattttgg gaagaaaacc tgtatttttg ttagittaca atattatgaa atttcacttc 120
aggagaaact gctgggcttc ctgtggcttt gttttcttag tttctttttc cgtgccgtgt 180
atTTTTaat tgatttttct tcttttactt gaaaagaaag tgTTTTattt tcaaattctgg 240
tccatattta cattctagtt cagagccaag ccttaaactg tacagaattt ccactg 296

```

```

<210> 518
<211> 299

```

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 36  
<223> n = A,T,C or G

<400> 518  
gaagatagaa aaatataaag ccaaaaattg gataanatag cactgaaaaa atgaggaaat 60  
tattggtaac caattttattt taaaagcccg tcaatttaat ttctggtggt gcagaagtta 120  
gaaggtaaaag cttgagaaga tgagggtggt tacgtagacc agaaccaatt tagaagaata 180  
cttgaagcta gaagggaag ttggttaaaa atcacatcaa aaagctacta aaaggactgg 240  
tgtaatttaa aaaaaactaa ggcagaaggc ttttgaaga gttagaagaa tttggaagg 299

<210> 519  
<211> 464  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 455  
<223> n = A,T,C or G

<400> 519  
gctgcacatc ggaggaaaac tcggtaaagc agaatgaggt tgatatgttg aatgtatttg 60  
attttgaaaa ggctgggaat tcagaaccaa atgaattaaa aaatgaaagt gaagtaacaa 120  
ttcagcagga acgtcaacaa taccaaaagg ctttgatat gttattgtcg gcaccaaagg 180  
atgagaacga gatattccct tcaccaactg aatttttcat gcctatttat aaatcaaagc 240  
attcagaagg gggtataatt caacaggtga atgatgaaac aaatcttgaa acttcaactt 300  
tggatgaaaa tcatccaggt atttcataca gttaaacaga tcgggaaact tctgtgaatg 360  
tcattgaagg tgatagtgc cctgaaaagg ttgagatttc aaatggatta tgtggtctta 420  
acacatcacc ctcccaatct gttcagttct ccagngtcaa aggc 464

<210> 520  
<211> 221  
<212> DNA  
<213> Homo sapiens

<400> 520  
ctgatatcta cttatttaac acaagtctct aatacaatac aattttatta attttattcc 60  
acatgccccca cattagatct ctagactcat tcatcctaca tacctacttt gtatcccttg 120  
acctacatct cctacttcc tctccagtc cccacccccc acccactggg gctaaccact 180  
gtttcattcc ctttttcatt ctacatatgt gagatcatgc t 221

<210> 521  
<211> 312  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 37, 38, 238

<223> n = A,T,C or G

<400> 521

```
ctgatagctt tctcttcgcc tagattaata tcttctnnct tcccattcac agccccacc 60
gacatcaaag ctttgctgtt ttatctgtca aaaatgtctt cacacttttc attcttaaatt 120
aaaagtgtcg agtaaggaca ttttcacaac aaatttttat ttacaaaac ttacaatgat 180
ttgaatccaa aacaactttc attattttaac tgtaaagtaa atatataatt tattaggngt 240
gtcttagttc attttgtgct gctttaacag tgtatccttg tgatagttgt ggggtggggg 300
aggggggaag ga 312
```

<210> 522

<211> 336

<212> DNA

<213> Homo sapiens

<400> 522

```
ccttctttcc ccaactcaatt cttcctgcc tgttattaat taagatatct tcagcttgta 60
gtcagaccca atcagaatca cagaaaaatc ctgcctaagg caaagaaata taagacaaga 120
ctatgatatc aatgaatgtg ggttaagtaa tagatttcca gctaaattgg tctaaaaaag 180
aatattaagt gtggacagac ctatttcaaa ggagcttaat tgatctcact tgttttagtt 240
ctgatccagg gagatcacc ctctaattat ttctgaactt ggtaataaa agtttataag 300
atttttatga agcagccact gtatgatatt ttttaag 336
```

<210> 523

<211> 172

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 5, 9, 11, 21, 49, 56, 60, 65, 66, 83, 88, 92, 113, 129

<223> n = A,T,C or G

<400> 523

```
ngacnggcnc ntggctatgt ntatagatag ggctttaacc actatctgng aagcangagn 60
gacannattc ttgctctcac atnccacngg anacgtatct ctcttctctt acnagcgaag 120
aaccatctnt ttctaaagcc cccattctat tgcccttgct tttctctggc tt 172
```

<210> 524

<211> 471

<212> DNA

<213> Homo sapiens

<400> 524

```
ccagacctgc agaaaaactt agcacagctc aatctgctgt tttgatggct acagggttta 60
tttgggtcaag ataactcactt gtaactattc caaaaaattg gagtctgttt gctgttaatt 120
tctttgtggg ggcagcagga gcctctcagc tttttcgtat ttggagatat aaccaagaac 180
taaaagctaa agcacacaaa taaaagagtt cctgatcacc tgaacaatct agatgtggac 240
aaaaccattg ggacctagtt tattatttgg ttattgataa agcaaagcta actgtgtggt 300
tagaaggcac tgtaactggt agctagttct tgattcaata agaaaaatgc agcaaacttt 360
taataacagt ctctctacat gacttaagga acttatctat ggatattagt aacatttttc 420
taccatttgt ccgtaataaa ccatacttgc tcaaaaaaaa aaaaaacctt c 471
```

<210> 525

<211> 332  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5, 36, 60  
 <223> n = A,T,C or G

<400> 525  
 cccnctgta ttccagcctg ggtgacccca tctcanggaa gaaaagttac cagatgtcgn 60  
 gggtaaagggt tggctcttcaa gtggcctcat aagttgtctt gcattttaaatt tcagggaatt 120  
 cattggacca atagggttaca ttttcgttcc tttttgtttt tggttcatct gttaagcagt 180  
 gggggcctaa ttactgctcc tttgtaaaaa cacattttcc caaagaacac tgaattaccg 240  
 ttcaaaactgg ttgttgatgg gtaataaggg ctgtttttgc tgccccaataa gggcttaaca 300  
 atttaggcgg atagtttact taaaaaaaaa aa 332

<210> 526  
 <211> 440  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 36, 241, 258  
 <223> n = A,T,C or G

<400> 526  
 ccaggttacc tcccctaaca gatgtggtgt tctganggggt tggttaagtg cccgaggaaa 60  
 ataggcctta actgttaaca tctacagaga agaaagcatg gtcacactgg caaggagtaa 120  
 gaagggattg ggtaaaagaa aatgggagag aaaagggaata aaagtgttgg caagacaatt 180  
 gtccctctgc aagaagctgc aggggtgaaag ctttcctttc ttctattttt gtttttaattg 240  
 nctgtctctc tgatcagngg aaaagtgaata atttctagta tctagcacta acgtatgacc 300  
 caactttgag ggatcacaag ctagaacaag ttgaggattt aaaatcctgg ataattatat 360  
 acttaaagtt catgagcata aagctcactt gaccatgcag aaatgctggg aagcagggtg 420  
 catggcatgg gaatacatct 440

<210> 527  
 <211> 124  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 30  
 <223> n = A,T,C or G

<400> 527  
 ttcccatatg tctgttgggt gcataaatgn cttcttctga gaagtgtctg ttcctatcct 60  
 ttgccccctt ttgaggact taaatgttag acctagacc ataaaaaacc tagaagaaaa 120  
 ccta 124

<210> 528  
 <211> 162

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 35  
<223> n = A,T,C or G

<400> 528  
ctgcgggaga aatatgggga caagatgttg cgcangcaga aaggtagacc acaagtctat 60  
gaagaacttt tcagttactc ctgccccaaag ttcctgtcgc ctgtagtgcc caactatgat 120  
aatgtgcacc ccaactacca caaagagccc ttcctgcagc ag 162

<210> 529  
<211> 409  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 34, 35, 270  
<223> n = A,T,C or G

<400> 529  
cctttaaaat atagcttata aaatgtatac tatnngccag gagagctcac atttttctgc 60  
agttttccag tggacctgcc tatggaatac tgtaaagaaa aatctgcaaa aatattccta 120  
gcaattgaat cagtgccttt aaataaaaga agtggagagg ggcttggtta aattattctg 180  
acaagttttc ttgctagtgg ttgccaaaat taaggatatt tgaagtgtcc taccacccaa 240  
atttggcttt aagaaaaagc tatattctgn gtctataggg tgaagccac actatctgtg 300  
ctgcattctc aatgatataa tacctatctg gaaactttcc tgttttgcca atgggtgcac 360  
aaatctaaaa cattttatca caaaaggtag ttgaatttaa atttctttt 409

<210> 530  
<211> 325  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 39, 47, 96, 254, 264  
<223> n = A,T,C or G

<400> 530  
ccgccagtgt gatgatatac tgcagaattc gccctttcna gatttgngcc cgggcaggtc 60  
catggctagg attatagata gttgggtggt tggggnaaat gagtgaaggca ggagtccgag 120  
gaggttagtt gtggcaataa aaatgattaa ggatactagt ataagagatc aggttcgtcc 180  
tttagtgttg tgtagggcta tcatttggtt tgaggtagt ttgattagtc attgttggtt 240  
ggtaattagt cggntgttga tganatattt ggagggtggg atcaatagag ggggaaatag 300  
aatgatcagt actgcggcgg gtagg 325

<210> 531  
<211> 173  
<212> DNA  
<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 37  
 <223> n = A,T,C or G

<400> 531  
 ccaattgatt tgatggtaag ggagggatcg ttgacncgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt tag 173

<210> 532  
 <211> 395  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 41, 331, 344, 369  
 <223> n = A,T,C or G

<400> 532  
 caggtoctac tatgggtggt aaatTTTTta ctctctctac ngggTTTTtt cctagtgtcc 60  
 aaagagctgt tcctctttgg actaacagtt aaatttaca ggggatttag agggttctgt 120  
 gggcaaattt aaagttgaac taagattcta tcttgacaa ccagctatca ccaggctcgg 180  
 taggtttgtc gcctctacct ataaatcttc ccactatttt gctacataga cgggtgtgct 240  
 ctttttagctg ttcttaggta gctcgtctgg tttcgggggt cttagctttg gctctccttg 300  
 caaagttatt tctagttaat tcattatgca naaggtatag gggntagtcc ttgctatatt 360  
 atgcttggtt ataatttttc atctttccct tgcgg 395

<210> 533  
 <211> 290  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 215, 216, 237, 244, 249, 265, 267, 283  
 <223> n = A,T,C or G

<400> 533  
 ctgaaccatt atgggataaa ctggtgcaaa ttctttgcct tctctacttc tcaatgattg 60  
 aacataagct tccagggctc ccctgaaaac caaatgaaa acaatgtcaa aatattagat 120  
 aaatcacata aaacagttta ggggatacca atatataaaa attattaggt aagctcattt 180  
 ctggaactgt taatgctcgg ttccacaatc caagngacc aacagccttc actcagntac 240  
 tggnaagtgt actatggta ctacngntac tacctttagt gtnaaaaact 290

<210> 534  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature



<222> 43, 44, 96, 126, 219, 228, 239, 248, 263, 287, 299, 310,  
318, 322, 323, 330

<223> n = A,T,C or G

<400> 534

```
ccgccagtgt gatggatata tgcagaattc gcccttagcg agnnagccgg gcagggtccat 60
ggctagggttt atagatagtt ggggtggttg tggggnatga gtgaggcagg agtccgagga 120
ggttanttttg tggcaataaa aatgattaag gatactagta taagagatca ggttcgtcct 180
ttagtggttc gtatggctat catttgtttt gagggtagnt tgattagnca ttgttgggng 240
gtaattantc ggctgttgat ganatatattg gaggtgggga tcaatanagg gggaaatana 300
atgatcagtn ctgcggcngg tnngacctcn gccc 334
```

<210> 535

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 536, 538

<223> n = A,T,C or G

<400> 535

```
nccataagct tcagtgcgca aaagggtcaag gccagtgtta atttggtatt tcttaaataa 60
ctttcccttt cattttttaa ttataaattt aacttctaac atgttttatg gttaaaattg 120
tacttttttc ctttagcgac attcaaagtc atcacaatca ctttgtgaaa ttgttcgcct 180
gagcagagac cagatgttac aaattcagaa cagtacagag cccgaccccc tgcttgccac 240
tctagaaaag tatgtgtaaa actctgttct tgttcttctt tcatattgat gctgttccat 300
gtgttaccat tgtgagtggt tggttaagtgt tccttatgtg ggaatcatgt gcottgaaaa 360
taaccttgagg tgggtgagaa ggtagggaaa cctgcttctt ttatctcaag taaaagtgtt 420
ggcaggggtaa agaagataaa tgacatttat atctagactt ttgagttttc caattatttg 480
gtaaaaaatgg gaaattctgt agaagccctt ccttaaaaat gggggaagtc catttnanaa 540
aattaactgg taggtca 557
```

<210> 536

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 37

<223> n = A,T,C or G

<400> 536

```
gttccaacct tcatttctga aactgttcta gagcacngtg tctttctcgt agttcataac 60
ttaccoccttc agtctagaat tagaattaca ttatctgttt tactacttta ctgactgta 120
agctoctaga agataaggac tagggagttc atctctgtat tccaccagaa ggtacagtga 180
ctcatatcta gagtctttag atgaaactta ctgagttgaa taacttaata tatttctgtt 240
ttcattccca agggaggcca tgtctggaga tagacctga atttaataaa ttttaggcac 300
tataccattt cagtggagaa aattgttggg aaatttgggg ggatggatat ataaggggga 360
ggaagtcact gg 372
```

<210> 537

<211> 284  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 37  
 <223> n = A,T,C or G

<400> 537  
 ccttctgatg caaacagaaa ggaaatgttg tttggangcc ttgctagacc tggacatcct 60  
 atgggaaaaat ttttttgggg aaatgctgag acgctcaagc atgagccaag aaagaataat 120  
 attgatacac atgctagatt gagagaattc tggatgcgtt actactcttc tcattacatg 180  
 acttttagtgg ttcaatccaa agaaacactg gatacttttg aaaagtgggt gactgaaatc 240  
 ttctctcaga taccaaacaa tgggttacc agaccaaact ttgg 284

<210> 538  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<400> 538  
 gtacatagta ggtgtatata tttatgggct atataagatg ttttgataca ggcatgtaat 60  
 gtgaaacaag cacatcaaca agaatggggt atccatcccc taaaacattt gtcctttggg 120  
 ctacatgtca tttcctaattg taaagaaaat ggacagacag aaccaacatt gatttgactg 180  
 ggtgaaaaag tccatttgag ttgggagcag gggttggtt cctggatttg gggtgttagg 240  
 acagtgtaaa aaggcttcac aggggaacat tcttttctga taaaggaaag cag 293

<210> 539  
 <211> 468  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5, 35, 36, 59, 251, 367, 436, 437  
 <223> n = A,T,C or G

<400> 539  
 tttcnataaa ctttattttt agagcagttt taagnnggta gcaaaattga ttagaaggna 60  
 cagagatgtc ccatacacct cctactccca cacatgcaca gccttcccca ttatcaatag 120  
 cccccaacag agggatacat ttgttaacaa ctgacgaacc tacatatcat tatcacccaa 180  
 agtccacagt ttatattatt ctttctggag aattttcaaa tacagaaatt cctctaccag 240  
 gaataaacta ncaatttcct ctcggttct tataaattta attattattt cagaaattag 300  
 cctatcttta caggagaaaa tgttataaac catgaaaaga ctatcaaata cacaaggaag 360  
 tgaatgntat ataaaaaatg taccatctcc taaacaacta cctgcattcc cttcttggtg 420  
 gtaagttata atttgnnata gttctgatca tctgtttaat taatttgc 468

<210> 540  
 <211> 397  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 35, 360  
 <223> n = A,T,C or G

<400> 540  
 ctgttttatt aattccccca tttgcagcac acttntctct tccaacattc atcagtcaga 60  
 tcagagtcca cgggtcttttc aaaattttaga taaactggct tacattttgt aatgatgtcc 120  
 ccagacaaca ccccaactcca acccattctg tttgttacta ttagtttaca acatgcatgt 180  
 gcctttactt tcatttttcat agtattttaa aatggaaggg cactcccaaa tttactttta 240  
 cccctttaat aatctctctc ctctgtctct ctctggctct ccagacaact gttgatttac 300  
 tttcctttat gatggattag tttgcatttt ctagaatttt atatgactga catataaagn 360  
 ttttatgttt ctcccctttg ggtttcttca tgtggca 397

<210> 541  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 541  
 cctagatagg ggattgtgcg gtgtgtgatg ctagggtaga atccgagtat gttggagaaa 60  
 taaaatgtgc atagtggggg ttttatttta agtttggttg ttaggtagtt gaggtctagg 120  
 gctgttagaa gtcctaggaa agtgacagcg agggctgtga gttttagggt gagggggatt 180  
 gttgtttgga agggggatgc gggggaaatg ttgttagcaa tgagaaatcc tgcgaatagg 240  
 cttccggc 248

<210> 542  
 <211> 366  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 75, 123, 364  
 <223> n = A,T,C or G

<400> 542  
 aatcggccct ctagatgcat gctcgagcgg ccgccagtgt gatggatatc tgcagaattc 60  
 gcccttgagc gatanccggg gcaggtccaa ttgatttgat ggtaaggagg ggatcgttga 120  
 ccncgtctgt tatgtaaagg atgcgtaggg atgggagggc gatgaggact aggatgatgg 180  
 cgggcaggat agttcagacg gtttctattt cctgagcgtc tgagatgtta gtattagtta 240  
 gttttgttgt gagtgttagg aaaagggcac acaggactag gaagcagata aggaaaatga 300  
 ctatgagggc gtgatcatga aaggtgataa gctcttctat gataggggaa gtagcgtctt 360  
 gtanac 366

<210> 543  
 <211> 460  
 <212> DNA  
 <213> Homo sapiens

<400> 543  
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
 gctgttcttc ttgggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120  
 aattttaaagt tgaactaaga ttctatcttg ggcaaccagc tatcaccagg ctcggtagggt 180  
 ttgtcgcttc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240

```

agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300
ttattttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt 420
ctatgcgcta tactttatctt gggtaaattg tttggctaag 460

```

```

<210> 544
<211> 116
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 42, 46, 95
<223> n = A,T,C or G

```

```

<400> 544
ccgccagtgt gatggatata tgcagaattc gcccttttga gngctngcgc ccgggcaggt 60
ctgttttcagc agctcctcct tcttcttccc gcgangatct cgagccttga tcttgg 116

```

```

<210> 545
<211> 380
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 18, 102, 104, 123
<223> n = A,T,C or G

```

```

<400> 545
cgacggatcg atnagctnga tatcgaattc ggacgagcat ggcgtattgc tgcagatatg 60
gattcttcag aatgctccat gacaaatgta ctgacgggaa gncnatctaa aggaggcatt 120
gtnatgagag aaaggtctcg agctccagat aaagagagat acagagttct tggaattgga 180
gttgcgagaaa cagtaagaca atcgattgtg gggaagcggt cttttagaga atctttggcc 240
ttcaactcaa agcgttggtc ttcattcaata ataagtagct cgtgccgaat tcctgcagcc 300
cgggggatcc actagttcta gagcgggcgc caccgcggag gagctccagc ttttgttccc 360
tttagtgagg gttaatttcg 380

```

```

<210> 546
<211> 418
<212> DNA
<213> Homo sapiens

```

```

<400> 546
ccagggaatt taggcaggag aaggaaataa agggatttca attaggaaaa gaggaagtca 60
aattgtccct gtttgccgat gacatgattg tatatctaga aaacccatt gtctcagccc 120
aaaatctcct taagctgata agcaacttca gcaaagtttc aggatacaaa atcaatgtac 180
aaaaatcaca agcattctta tacaccaata acagaccaac agagagccaa attatgagtg 240
aactccatt cacaattgct tcagagaata aaatacctgg gaatccaact tacaagggat 300
gtgaaggacc ttttcaagga gaactacaaa ccactgctca aggaaataaa agaggatata 360
aacaatgga agaacattcc atgctcatgg gtaggaagaa tcaatatcat gaaaatgg 418

```

```

<210> 547
<211> 172

```

<212> DNA  
<213> Homo sapiens

<400> 547  
cctgagggttg ggagaaattt tgtccatttc tttagaacca aaattggcaa ccagagagta 60  
tttgatgtt acacaaaata tctagtttcc ctttctagcc taaattgggt tgtttatagc 120  
accogtctct ccatttgaga aaaatgggta ggatgctggt gcagggatga gg 172

<210> 548  
<211> 367  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 340  
<223> n = A,T,C or G

<400> 548  
ggtctgactt aagagaaaca atggaaggca agaggcagta gaataatata ttcaaaagat 60  
gcaaaggaaa aaaacctctc agccacgaat tccttatcca gcaattatit ttcaaaaatg 120  
aaaataacac aaagacttag ccagataaac agaaacatta actgaagttg ttgctggcag 180  
acctaccata taaaaataaa aaactctaaa aaaattccta tggctaaaag caagttacag 240  
aagacagtca cttgaatcca catttttaaaa aaagcactga tatacgtaat attgacatta 300  
taaaagacag taaaaatgca tttcttcttt ataataaata gcttattaaa taacatgtgt 360  
ataatgg 367

<210> 549  
<211> 418  
<212> DNA  
<213> Homo sapiens

<400> 549  
ccaaatcaga acctagagtg agcattctat aaactcacct ttgctttgat ccttgaagat 60  
cacaagtttt gatactgttg aaatctctac tctttcaaca ctttaattaa atggcattta 120  
gaatttcata tacttctgtt gttgtttcca caatcttaaa ctggatttag aaatacttat 180  
aatgtaaatg caagagcttt aacttagtaa ccgtatttcc tattttttgt tgtttttctt 240  
ttgccagaat ttctgtttgt ctacaataaa gtccagcgaa atacagtatt tggttagggt 300  
acttgtaaac ataaaatttt atcatttgta gagtttttac ttaaccttcc tattctctag 360  
tctctataat ctttcaatga agataaccag ttacgaatat ctctataacc atattagg 418

<210> 550  
<211> 234  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 15  
<223> n = A,T,C or G

<400> 550  
cctaccgcgc gcagnactga tcattctatt tccccctcta ttgatcccca cctccaaata 60  
tctcatcaac aaccgactaa ttaccacca acactcacia caaaactaac taatactaac 120

```
atctcagacg ctcaggaaat agaaaccgtc tgaactatcc tgcccgccat catcctagtc 180
ctcatcgccc tcccatccct acgcatcctt tacataacag acgaggtcaa cgat      234
```

```
<210> 551
<211> 542
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 13, 14, 29, 160, 190
<223> n = A,T,C or G
```

```
<400> 551
caccctacc ccnntcctca taaaagttnc tctccctgga tctctttttt ccctcatgag 60
tgcccgggtt gccaaagtcaa aaacctggga gtgatataaa ctccccacac atccagtcag 120
tcaactcatca actctattga ttctgtctgc taaatatatn tcaattgtat taacttaaac 180
atatgcatan ggcactttct tcttcactgc atttttgtgg gctgcactta cttttcaggt 240
aacgacaaca ctggcccctc ttgcccttct agtcagaagt gccaaaatga tgagagctag 300
ccatgacaaa cccacagcca acattacact gaatgtgcaa aactggaagg gcatccaaac 360
agaggagggg agagaggaat agacaggaag tcaaaactgtc tctgtttaca gatgacatgt 420
ttctatatct ataaagcccc atagtcttgg ccccaaagct tcttctgctg ataaacttta 480
gcaaagtctt agcatacaaa atcaatgtgc aaaaattact aacagtccta tacatcaagt 540
ca      542
```

```
<210> 552
<211> 411
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 6, 25, 209
<223> n = A,T,C or G
```

```
<400> 552
cctggntgac aaggaggtgc ctgtnatgtg aagatttgag gaaagagcat tccaggcagg 60
gggaaggcct gatgcaaagg gtctactgca ggcattagct gagcttattt aaagatcaga 120
atgaaggcca ttgtggctag aacagagtgg acaggaagga atggtaccag gcaaagctga 180
agaagttggc aggattgagc tctcataant catggcaaag agttcccatt tcattgtttg 240
acggaaataa attggaaggt cttaagtagg agaagatttg attagattta cattttacga 300
agaagcactc tggatgttat gtgaagaaat ggcctttgca gggcaagggt ggaaacaaag 360
agatcagtta ggaaattatt ggagtagctg aggattggat gaggggatgt g      411
```

```
<210> 553
<211> 631
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 395, 574
<223> n = A,T,C or G
```

&lt;400&gt; 553

```

ccgggattag aactaaaaca agtgagatca cccctctaata tttttctgaa cttgggttaat 60
aaaagtttat aagattttta tgaagcagcc actgtatgat attttaagca aatatgttat 120
ttaaaatatt gatccttccc ttggaccacc ttcattgttag ttgggtatta taaataagag 180
atacaaccat gaatatatta tgtttatata aaatcaatct gaacacaatt cataaagatt 240
tctcttttat accttcctca ctggccccct ccacctgccc atagtcacca aattctgttt 300
taaatacaatg acctaagatc aacaatgaag ttttttataa atgtatttat gctgctagac 360
tgtgggtcaa atgtttccat tttcaaatta tttanaattc ttatgagttt aaaatttgta 420
aattttctaaa tccaatcatg taaaatgaaa ctgttgctcc attggagtag tctcccacct 480
aaatatcaag atggctatat gctaaaaaga gaaaatatgg tcaagtctaa aatggctaata 540
tgtcctatga tgctattatc atagactaac gacntttatc ttcaaaaacac caaattgtct 600
ttagaaaaaat taatgtgatt acaggtagag g                                     631

```

&lt;210&gt; 554

&lt;211&gt; 558

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 6

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 554

```

ccaggntagt ctccaactcc tgaccttagc tgatccaccc acctcggcct cccaaagtgc 60
tgggattaca ggcattgagcc actgcgcccg gccaaacttg atatgcattt ttaaataagt 120
taatacatta ttcattggttt agtctcatta tatattctat ggtccacttt gaaatttcat 180
ctaaccaaaa tcatcttcat cctgcaattt gaggtttgga cacaattggg attgatcagt 240
aattttcttca tatgccccttt ctcaaggaaa tagtttccta tgaaaaaaaaa gtcctatggt 300
ttcatgtaag ttctcttttt ggagaagaaa aggagacatt cttacttagc actctcagtt 360
ttacaaaacg ctgccaacct taaaatttgt ctattgattc ccaaggcaca caaccaatag 420
tgtgtcaata acccggaata acatttcttt aaggccccag taactttcac atgtttgggt 480
tccaatcttc acctagaatc ttgttaagaa aagtaaacca ttcactcctc tagaaactct 540
aaggttgctt cttagggg                                     558

```

&lt;210&gt; 555

&lt;211&gt; 212

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 555

```

ccaggatatt gcataatggc ttttcttctg ttgcctttgt tctttgtgg cccagctaa 60
ttgcctgaga gtgccactgt tagttttcaa ctctttctga tagaaaccct gtgtactaac 120
atggaaatct taggtaatct gctttttcaa agcacaatgc agaatttatt ggcgggtggg 180
taactttaag aatatccgag aagccaccaa gg                                     212

```

&lt;210&gt; 556

&lt;211&gt; 219

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 214, 216

<223> n = A,T,C or G

<400> 556

```
ccatgtgtct atctggagag aaggggaaac agcaagtgca aaggccctga gatggaacat 60
atctggagaa ttcgaagaat ggtaagaagg ccagagtgga gcagaacaag tgtgggagag 120
agttgtagga gatgagatca aaggctagga atgaagtgta aggccatgtc atgtgacctt 180
gtatgtcctt gtaaggcttt tttttttttt ttttncct 219
```

<210> 557

<211> 482

<212> DNA

<213> Homo sapiens

<400> 557

```
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt 420
ccatcgcta tactttattht gggtaaatgg tttggctaag gttgtctggt agtaagggtg 480
ag 482
```

<210> 558

<211> 679

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 5

<223> n = A,T,C or G

<400> 558

```
ctgtnaaaat tctgaaccta tccccaaaag aaaaaccgtg aaatacaagt tttaggaggt 60
ggagcaaaga aaagccaagt tatttaaaac caataaacac aagagacaat tctgctggag 120
aatttacttt ctccaaaaca tcaaatggac tttaaagcag aagaccacat tttatgagaa 180
agttatgtca ctgaaaagct tcatgtaaag tgactttgta aatggaatat ttttaaata 240
taaaaagaaa ataacttttc caggaatcct ttggagaggc tgataaccag atattaaatt 300
atcaattttg ccaaagtgga cttttaaaaa atgtgttact tttaaaaact aacttgaaag 360
aatttatgag gcaatctatc tgagtatgtt tattgttgct ccattggctt tcaggattht 420
ggtcatttca ctgttaactc ttacatcaga gaataaagaa aagaaaatga aactttgtta 480
ggaactggga tggaaaatgt agtcccagac agatctactg acctcgactg agtttcagaa 540
atatcccagg attttggtta ttcatgcctt tcttttggtga ctttctttca aattagccaa 600
ttaaagatac cccttcaatc accggtgaca tcagtacaac agtttttcaa cagttttctc 660
tctoctgacc aaacagtht 679
```

<210> 559

<211> 488

<212> DNA

<213> Homo sapiens

<220>



<221> misc\_feature  
 <222> 393, 407, 420, 450  
 <223> n = A,T,C or G

<400> 559  
 cccactgta ctccagcctg ggtgaccca tctcaaagaa gaaaagttac cagatgtcat 60  
 gggtaaaggt tggctttcaa gtggcctcat aagtgtgctt gcattttaat tcagggaatt 120  
 cattggacca ataggttaca ttttcgttcc ttttttgttt tggttcatct gttaagcagt 180  
 gggggcctaa ttactgctcc tttgtaaaaa cacattttcc caaagaacac tgaattaccg 240  
 ttcaaactgg ttgttgatgg gtaacaaggg ctgtttttgc tgcccaaaaa gggcttaaca 300  
 atttaggcgg atagtttact taaaaaaaaa aatccttttg agacatactg aaaatgcaaa 360  
 ctagtttcta aattatcaat tcctacatg aanaagcagt ttgccanagt ttagtctcan 420  
 aaaatgactg gttggctcta tttaaatcan aaccaattt ctacgcacct gcccgcccg 480  
 ccaagggc 488

<210> 560  
 <211> 602  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5, 566  
 <223> n = A,T,C or G

<400> 560  
 cctanttaag aattccttgc cttagtgggtg aacaaggact aaacacagac aatgggtgaa 60  
 acacagacgc taattcacat aacagagagt aggcaacctt aagaatgaat tgatgcagac 120  
 tccatagaa ttcctctgtt atgactgggt tcttattttc tcctccttgt atgtagttga 180  
 aatttcatca ttatgaatag ttccttggat ctttttttaa agttgtgaat gcgagtgttt 240  
 ggctttgtaa tacaactttt tagtatccag aagataacca gtgctctacc aataaagatc 300  
 ttttgatata aagggtttta acttctgcca gttcttactc atttttttca ggttttttat 360  
 acattttctta aacaacacat acattatgta aaatataaga attaatgtac attctcaagg 420  
 ccagattcag tgacaaaatg cactaccgga atctagtaac acatttactc cttgctgcat 480  
 ataagtggcg tgtaagaaat acaggggtata ttgttttgtg atccatgcag taaatgttca 540  
 caaatatcag gcaaacact agacgntctt cagctactaa aattaactgt cccagtcaca 600  
 aa 602

<210> 561  
 <211> 683  
 <212> DNA  
 <213> Homo sapiens

<400> 561  
 gtctattttt aaaaagaaag aaaaaaacca cttttttata gtccctagct ttgccatag 60  
 cccgccttaa gtggaaggaa agttaatcac ttaactatgt ttataaaaaa gaaaaaagg 120  
 cttggaatgc tattactgtt cacacaaagt atgattctgt ttgaataagg caaatgctcc 180  
 tttttttaaa aaaagacatt actgtaatat caaaaaccgt ggcagtgtgt atacaactct 240  
 gggcttgatt tttttttaaa aaacagaatg aattgatgtc ttatttttata aatgttctat 300  
 atttattagg agaaaacttt atattgcctt ttttatcaat catgtaacag gcttatagct 360  
 ttccaacaga gctgcttgcc aaacaatttt ttttgtttat taaacagtgc tgaaacaaac 420  
 aggatcagca ttactttaag atgttaagaa tgaggacttt taatcagccg aaccaagata 480  
 ttgttacctg tatgcattcc caaagtctag atgctcagta tgttcagtca tatctttcag 540  
 aatcagtga ccgattaccc tttttttgggt attcactcta catctgccaa cctagttcac 600

```
<210> 562
<211> 420
<212> DNA
<213> Homo sapiens
```

```
<210> 563
<211> 482
<212> DNA
<213> Homo sapiens
```

```
<210> 564
<211> 302
<212> DNA
<213> Homo sapiens
```

```
<210> 565
<211> 554
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
```

<222> 4, 5, 37, 38, 550, 551

<223> n = A,T,C or G

<400> 565

```
ccanngtgac atcatggcaa tacagcaaga attctggnat ttatttagaa gcctcaagga 60
gaaggatcct ggagcccctg aatgagagtt tcttctccat gcctctcccc agtcaaaaata 120
catggaaata ttcatagaag cattgtaccc agcatgataa ggaaggatgg agaatgggtc 180
cttataatctc tgttcacaag acatcaacac tcttaagtaa ctgtatgaaa taaattctct 240
gctgaaagca aataaaccat ctgaaaggtc ttctggttac ttacacagat ttcctagaga 300
atctgaaatc agcctaacag ggaagattaa tttttaaatg aatccaagtt aatgaaagca 360
aagaactctt atacagaaat acattttcct attataaagc aggactacct tccctaattt 420
ctgatagacc taggacaatt tgaatgggca ttgaaattct tttggttgaa ttacgcaaac 480
aagcaaagga aaagtctcaa ttattattgg aaaatttggg gagagattat tatctcttga 540
tctcctagtn natt 554
```

<210> 566

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 14, 15, 35

<223> n = A,T,C or G

<400> 566

```
ncgaagctgt gaanncattc acacggaatc tgganggtat tactgtaact tcttataata 60
cataatataa aagtttttga aagatataga cacaattaac ccctaaacaa cacactatct 120
gattctcaaa agcaatggct atttaacaag atgtaaaagg acaataacat atcaaagaac 180
tttcacacac ctaaagatag catttagcag caagttagtc agacaaaaca aacataaata 240
tcttcacatt tcctatgttt gtttttaact ttacttcata aagccactga taattgaggt 300
ttctttcaag tataagattt ctaaaattaa aaactgtttt tgacatatatt ttataaagaa 360
ataaaaagca aaacgcaatc caactattta tatgagtccc tcttctccaa cagctttaga 420
tgtttttctg agtacttttt acacagaata tttttattaa aatcagttct aattcattta 480
tgcagattag gggaaaatga ttcataataa attaaactta aaattacott ctatctgctt 540
ctacctctat ccccccatca ccaccaaact tggttgctaca gtgaactgta gccaatgtct 600
gtttgagggg gcccaaagca tctggtaatc t 631
```

<210> 567

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 6, 39, 87, 97, 111, 113, 161, 163, 179, 210

<223> n = A,T,C or G

<400> 567

```
cctatnatag cttctctagc tatcatactc caatcagcna aaaatgagaa aatgttgaga 60
aatagaagat aattcctcat ttaaggncac cttctanaat ttgtgcttaa nantctgttt 120
tcttctcatg ggccagcact tcggcaactg ggaaaaatta ngngtacagg gatctaggna 180
atactgttta tttagcaat aatatattgn gctaacgttc aggcaccta ttactgagaa 240
ataagggaaa atgagtgtaa agtacaacta agagtctcgg ctacagggaa aaataccatc 300
```

```
<210> 568
<211> 180
<212> DNA
<213> Homo sapiens
```

```
<400> 568
ttaatntgac ncaagcttat gcgaggagaga atgntttcat gttacttata ctaacattag 60
ttcttctata gggtgataga ttgggtccaat tgggtgtgag gagttcagtt atatgtttgg 120
gatttttttag gtagtgggtg ttgagcttga acgctttctt aattgggtggc tqcttttagg 180
```

```
<210> 569
<211> 237
<212> DNA
<213> Homo sapiens
```

<400>	569						
ccaatttgatt	tgatggtaag	ggaggggatcg	ttgacctcgt	ctgttatgta	aaggatgcgt	60	
agggatggga	gggcgatgag	gactaggatg	atggcgggca	ggatagttca	gacggctttct	120	
atttcctgag	cgtctgagat	gttagtatta	gttagttttg	ttgtgagtg	caggaaaagg	180	
gcatacagga	ctaggaagca	gataaggaaa	atgactatga	ggcgctgac	atgaaaq	237	

```
<210> 570
<211> 352
<212> DNA
<213> Homo sapiens
```

<400>	570					
ctgtctctcc	atttagagcc	ccagttgggtc	ctgacctctt	acaaatttgg	tgttttcact	60
ttgatgttta	tgaaccgatt	gcattaaaaa	tgcaggataa	tgattcaggg	ttagagaaac	120
tattatttat	acaaatgtgg	ttaacacctc	atcattttta	attggctgtg	ctaataatgc	180
tcattgtgct	cttcagggtt	atgtgtgtgt	gtgtgtgtgt	gtttgcctg	aatctgcaac	240
ctacatttgc	tctggcagta	tgttgagtat	atgctagaat	agaatggacc	taggcaactc	300
taaggctcta	caactaaata	cacttactta	ggaaacctcc	taaataagta	gg	352

```
<210> 571
<211> 402
<212> DNA
<213> Homo sapiens
```

```
<400> 571
ctgatttttaa caataactac tgtgttctctg gcaatagtggt gttctgatta gaaatgacca 60
atattatact aagaaaagat acgactttat tttctggtag atagaaataa atagctatat 120
ccatgtactgt tagtttttct tcaacatcaa tgttcattgt aatgttactg atcatgcatt 180
```

```
<210> 572
<211> 70
<212> DNA
<213> Homo sapiens
```

```
<400> 572
tggatccgag ctcggtacca agcttggcgt aatcatggtc atagctgttt cctgtgntcg 60
ttttacaacg                                     70
```

```
<400> 573
ccaatggttt cttagtgaag gagtacctga gctctgaatg caatgccttc agaaagatat 60
cattcataga gacatacaaa gcacatggca acatgacatt ggaatacacg attctgagca 120
tcttcattca tgaccaacct ggctatagat ttcagatgtc ctcttggttc gaaggatata 180
tgggatatcc atgctcactt gcatttcctt ccccttaatt tcattttcta agtccttctt 240
gtattgtttc taaaagaaca gaaaataatc ttggagcttt gcttaagctt taatagcgat 300
gttgaaattt acatgtttga atctcaaagc caccatgtg gaaagaaaac ttatgctctt 360
tccagctatg attcacggca tttattttta actttgtatc ttgctgctgt cttacctggc 420
tgg                                     423
```

```
<400> 574
ctgttaaaag aacaaactta gcaatatata acagtttgct aacaggattt ttgactattc 60
actttgcgag ttatttttaa aaatccactt ttttactgag tcttactaca taccaggcac 120
tgtacttgg                                     129
```

```
<220>  
<221> misc_feature  
<222> 7, 40  
<223> n = A,T,C or G
```

ccagatntga	cttttcaaaa	ctactcacat	tgtgaaaaan	gcaggaacaa	atctagtttc	60
aagttcagca	tgccgttccc	tgtttaattc	ataaaacaca	actggcagaa	gtattacttg	120
aagcaaaaaca	aaagtaacgt	gggaacttgc	ttatttgcta	agccacaatg	tattttttcca	180
ggaatagcat	aaatttgcca	tctttcttgt	gtctatggaa	aaggggttta	gaattgtttc	240
actaaaaatt	aaatttctat	attgtcaaac	atgattgtat	actcaaattt	taaaatgtga	300
aggggaacact	tactaagcat	ttcctgggta	tgccactata	ttaagtcccta	gtaatatgat	360
atagttttatt	tcaatttttt	ttcaactcat	acttccttta	aaatagcact	gacccaaaaga	420
aagttaacat	gagcttcatg	tacaattttt	aatctttttg	cagaaaaata	aactgagaaa	480
ggctaaaatt	gttttatatta	agccactata	ccaagacata	ttgatttcac	caatataaaa	540
attgagatag	tttacatttt	ttggtacatc	tttaaaatct	ggtatgtatt	tttatactga	600
cagcacatct	caatttggac	aagctacatt	tccagggctc	aatagtcacc	atgaatctca	660
attgtaatca	aaagagtttg	cctg				684

<213> Homo sapiens

```
ccttattttct cttgtccttt cgtacagggga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcgqctg cacc                                     134
```

<213> Homo sapiens

<223> n = A, T, C or G

```
ctgtctctcc attnagaagc cccantnggt cctnacctct tacaaatttg gtgttttcac 60
tttgatgttt atgaacogat tgcattaaaa atgcaggata atgattcagg gttaganaaaa 120
ctattattta tac                                     133
```

<213> Homo sapiens

cctcaaatct	atcttc aaag	gtgacc cagc	aatcag tgtc	aatgccttta	ctgtag ttaa	60
cctggt aatt	tcattcttta	gtctct ccaa	gaaaat ctga	agtgtatt ag	gcaagt caga	120
acccaa ttg	tctcca aggt	tgcaaata at	ttgtcccata	caggaa atag	cccttt cctt	180
gacttctga	tcaatgtc ag					200

<213> Homo sapiens

<400> 579

```
ctgatttttaa caataactac tgtgttcctg gcaatagtgt gttctgatta gaaatgacca 60
atattatact aagaaaagat acgactttat tttctggtag atagaaataa atagctatat 120
ccatgtactg tagtttttct tcaacatcaa tgttcattgt aatgttactg atcatgcatt 180
gttgagggtg tctgaatgtt ctgacattaa cagttttcca tgaaaacggt ttattgtgtt 240
tttaatttat ttattaagat ggattctcag atatttatat ttttatttta tttgtttcta 300
ccttgaggtc ttttgacatg tggaaagtga atttgaatga aaaatttaag cattgtttgc 360
ttattgttcc aagacattgt caataaaagc atttaagttg aa 402
```

<210> 580

<211> 245

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 80, 114, 217, 233, 237

<223> n = A,T,C or G

<400> 580

```
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgan gactaagatg atggcgggca ggatagttca gacngtttct 120
atttctctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca gataaagaaa atgactntta gggcgtgatc atnaaanggg 240
ataaa 245
```

<210> 581

<211> 294

<212> DNA

<213> Homo sapiens

<400> 581

```
tgcagcgcaa gtaggtctac aagacgctac ttccctatc atagaagagc ttatcacctt 60
tcatgatcac gccctcatag tcatttttct tatctgcttc ctatgcctgt atgccctttt 120
cctaacactc acaacaaaac taactaatac taacatctca gacgctcagg aaatagaaac 180
cgtctgaact atcctgcccg ccatcatcct agtctctatc gccctcccat cctacgcatt 240
cctttacata acagacgagg tcaacgatcc ctcccttacc atcaaataca ttgg 294
```

<210> 582

<211> 230

<212> DNA

<213> Homo sapiens

<400> 582

```
gaggctgccc tcatagtcatt tttccttatt tgcttcttag tcctgtatgc ccttttcccta 60
acactcacia caaaactaac taataactaac atctcagacg ctacaggaaat agaaaccgtc 120
tgaactatcc tgcccgccat catcctagtc ctcatcgccc tcccatccct acgcattcctt 180
tacataacag acgagggtcaa cgatccctcc cttaccatca aatcaattgg 230
```

<210> 583

<211> 481

<212> DNA

<213> Homo sapiens

&lt;400&gt; 583

```

ccaagggtgt tctgcctgcc tcagcctccc aaagtgctgg gattacaggt gtgagccact 60
gtgcctgacc acaggaaaac ttattttaa atgagatttg actcgaaaga tcccgttttt 120
ttaaggctct tagttcttaa aagcggcaca taatagaatt agtataatcc caaataaatt 180
ttcagtagat ttttgggtga acttgagaag atgattctgt catttttagt gacaatttaa 240
aagacctgaa attgtctaca gccatagaaa gtgaactact gatagttgtt tctgtaaagt 300
tttattggaa cacaaccaca cctatttgtt catctgtatt gtctttgggt actttgtgca 360
gagaccatgg ccacaaaacc taaaacattc actttctagc tctttaagaa ataattggcc 420
cactgacacc ctgggtctta ggtctagacc aattatttct caagagtatt agctgaatca 480
g                                                                 481

```

&lt;210&gt; 584

&lt;211&gt; 306

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 584

```

ccaattaaga gctaaattta caaaataatc tctatcagga ggctttaagg tttaatgtct 60
ctaaagtccc tatggatata agaggcttga atgtactgaa ttcaaatttg gttttttaa at 120
gttataatag tttaggcccg agagccacat atttctgtct aagaatagaa agcatagcta 180
gctgccca cagaatattc atatagaggt ggggggcaag aacaaaattt attcatttga 240
tacatagaaa tgggactact tagaatagac tcataataga aagcatcatc tggtttctca 300
tctcag                                                                 306

```

&lt;210&gt; 585

&lt;211&gt; 308

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 585

```

ccagaatggt acagagtgga ggggtgttctg ctaatgactt cagagaagta ttttaagaaaa 60
acatagaaaa acgtgtgcgg agtttgccag aaatagatgg cttgagcaaa gagacgggtgt 120
tgagctcatg gatagccaaa tatgatgcca ttacagagg tgaagaggac ttgtgcaaac 180
agccaaatag aatggcccta agtgcagtgt ctgaacttat tctgagcaag gaacaactct 240
atgaaatgtt tcagcagatt ctgggtatta aaaaactaga acaccagctc ctttataatg 300
catgtcag                                                                 308

```

&lt;210&gt; 586

&lt;211&gt; 416

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 105, 119, 132, 139, 140, 144, 159, 160, 208, 226, 230, 247, 250

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 586

```

cctgtctttg aatggatgaa ataggttaat aaaaaacatc actgtttaaa aactagaaca 60
ctgaaaaatt ctaggaaagc ttattttccc ttatatattt atggnaacttt caacacttina 120
caacactatt tnaattaann tttnttctag agtttatann atatcagtac attcttttct 180
gtggatgcaa taatatagaa tcttattnca aatcttactg gcaggntctn ttaaattctt 240

```



```

caacggntgn catagtgatt aacccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300
cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360
atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata gtctgg 416

```

<210> 587

<211> 382

<212> DNA

<213> Homo sapiens

<400> 587

```

cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc ttgggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagg 180
ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatttc tc 382

```

<210> 588

<211> 307

<212> DNA

<213> Homo sapiens

<400> 588

```

cctactcttc tccgtccatt gtactatctg cccgtgggtg ggatggcagt aggatcatat 60
ttgatgactt ccgagaagca tattattggc ttcgtcataa tactccagag gatgcgaagg 120
tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaatttttag 180
tggaacaata cacatggact aatacccata tttctcgagt agggcaggca atggcgctca 240
cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctgggtcattt 300
ttggagg 307

```

<210> 589

<211> 89

<212> DNA

<213> Homo sapiens

<400> 589

```

cctgggtgat tgaggatgca atgagctgtg attgtgccac cacactccag cctgggcaat 60
acagcaagac tgtctcaaaa aaaaaaaaaa 89

```

<210> 590

<211> 456

<212> DNA

<213> Homo sapiens

<400> 590

```

cctcagttct tgatttgtgt tgacggggcg tcaccatgaa ggagcccatt tagtataaag 60
cttccaacct tttctcttaa tcgtttcttt aatcttttaa accatcttca agtgcataagg 120
ggagtttccg atgccagagg atgaaagcaa gtgctctctc caccctctcc tcccagagt 180
aaaacaaatc cttttgtcga tacttgtttc aaaagcatcc attgtaaagc ttctcagtga 240
cacaaaatac tgagaggtaa ctttttatca atcaaaccac ataccccaat ttaacacctt 300
tcaatgctct gaattcaact gacagactaa aggggtgttc ctgtaacagt ctgaaatatt 360
aagtgttttt tttgttttgt ttttaaactc tatttcagaa aacttcctct tggggtagga 420
aagtacacat gaagcagcaa agtaacgaag aaaaac 456

```

<210> 591  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 591  
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgac atgaaagggtg 240  
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgcg 289

<210> 592  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 250, 316, 325, 392, 430  
 <223> n = A,T,C or G

<400> 592  
 cgcgttagat gcgccttttc cggcctgtgc gtctgctctg gttcctctca ggcagcaaag 60  
 ctggggaagg aagctcaggc aggagcctcc ccgacaccac agcggcacia gcagcagcta 120  
 aagcaccgca ctttgctctg ctaacctttt acttaaatga ggttttgcca aatccacatc 180  
 tggaaccgca tcacacccat ttgcaaggat gtttgttctt tgatgaaact gcactctctac 240  
 tgcacatgan ggcttttcatt gtaggacaag aggagagttc gtttattttt gtaactgttt 300  
 tacatgttcc gattanttaa tcggnagctt atgtcatttg ctatgcctgt tgtcttctaa 360  
 tctctcctta ctaaaacatt acttcaaatt tnaattgacc ctgtgtttata atttatttaa 420  
 cgggatttgn gtgtc 435

<210> 593  
 <211> 633  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 35, 620  
 <223> n = A,T,C or G

<400> 593  
 ctgttttagtc agataattgt gtccgaattg attangaaaa taatagacca gccataaagc 60  
 agcataaaat attatgaaac tattccagaa gttcagtaat atctttggga cctgctcata 120  
 gccaagttt tgtgaatact tttgtagtta aaaaaaattt ttactttacc agggcattgc 180  
 aattcttttc catcagtga tttcattcta cagacttttc agagcatctc ataatacagtc 240  
 aacaaatcta tttcaaagt gtttgttact aagcaacggt tgctaagagc ttctgtaatt 300  
 aagatgaaag ttccaaggta acaatgccca aacacagcac cattttcacc attttctgat 360  
 aatgcaggag taggatggct aaaagtgaag gaagaatcta ctctatggaa agcatggcac 420  
 ctgaaatttc tgaagatatt ggctgtcctc tagcttatat gagagagagt gtttgtgctt 480  
 tactaatcaa ccagtcattt ttttcttgtg tggctgaaat gtacattcca gacatgaaca 540  
 ggtagagtat gtgttggggg cagggtttata ctgcatgggt gtgctgagac agggccacgt 600

ggtgatgtaa atgatgctgn ctgacacgtg cag

633

<210> 594

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 34

<223> n = A,T,C or G

<400> 594

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cctttacaag atgctggtac cttgatcttg gaacgggcag gctccaagat ggaaagaaag 60
tgagcatctg ctttttaggg attatccagt ctatactact ctgttctagc cacacaaaac 120
aggttaagac agaaattggt accaagagtg ggggtgttact acagcaaata cctgaaaatg 180
tagaagaggc tttgaaatgt ggtaattgga agaagctggg agaatttgga ggagtaggct 240
agaaaatgtc tgtattttca tgaatggagc attaagaata attccggtga ggccataggg 300
aaagtctaaa acttttcaga aattatgtaa gcgattgtga ttagtagggt ggtagaaata 360
tagacagtaa aagcaattct gatgtgggtt cagaggaaaa tgaaaaatat tagaaactga 420
aggaaggggc atccttgcta taaactggca aagaacttgg ctgaaatgtc tccatgtcca 480
agagatttat ggcagaaatg t
```

<210> 595

<211> 383

<212> DNA

<213> Homo sapiens

<400> 595

```
ctggtcacca tcatcccttt aatcaactca cacctgttta aagagtgttt ctgatttgac 60
cttcatccct tagtttactg gcgttaaaaa aagtctcagc aattttcatt atttctcgtg 120
gggtctcatTA tcaaacccttt acttatttcg gcatatttcc tctgggcttc ttctagtttc 180
tgccattaca gcaatgctgt tctgtaaatt tattgaaacc tctggaacat ttcaccttta 240
gagatggagg atggaaggat tggtagcaga agagggctaa gatacgtttt ctgtcttgag 300
ctgaaagcac agtctactct ccttcgtttt gtcgatgaga aagttgaggc cagagggggag 360
gtgacatgtt tagagtcacc cag
```

<210> 596

<211> 266

<212> DNA

<213> Homo sapiens

<400> 596

```
ccatggctag gtttatagat agttgggtgg ttggggtaaa tgagtgaggc aggagtccga 60
ggagggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120
ctttagtgtt gtgtatggct atcatttggt ttgagggttag tttgattagt cattgttggg 180
tggtaattag tcggttggtg atgagatatt tggagggtgg gatcaataga gggggaaata 240
gaatgatcag tactgcggcg ggtagg
```

<210> 597

<211> 383

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 35  
 <223> n = A,T,C or G

<400> 597  
 ctggtcacca tcatcccttt aatcaactca caccngttta aagagtgttt ctgatttgac 60  
 cttcatccct tagtttactg gcgttaaaaa aagtctcagc aattttcatt atttctcgtg 120  
 ggtctcatta tcaaaccctt acttatttcg gcatatttcc tctgggcttc ttctagtttc 180  
 tgccttacaa gcaatgctgt tctgtaaatt tattgaaacc tctggaacat ttcaccttta 240  
 gagatggagg atggaaggat tggtagcaga agagggttaa gatacgtttt ctgtcttgag 300  
 ctgaaagcac agtctactct ccttcgtttt gtcgatgaga aagttgaggc cagaggggag 360  
 gtgacatgtt tagagtcacc cag 383

<210> 598  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 598  
 ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggc aggagtccga 60  
 ggaggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120  
 ctttagtggt gtgtatggct atcatttggt ttgaggttag ttgattagt cattgttggg 180  
 tggttaattag tcggttggtg atgagatatt tggaggtggg gatcaataga gggggaaata 240  
 gaatgatcag tactgcggcg ggtagg 266

<210> 599  
 <211> 294  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 201  
 <223> n = A,T,C or G

<400> 599  
 ccaattgatt tgatggtaag ggagggatcg ttgaccacgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaagca nataaggaaa atgactatga gggcgtgatc atgaaagggt 240  
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgccg tgca 294

<210> 600  
 <211> 213  
 <212> DNA  
 <213> Homo sapiens

<400> 600  
 agatattggg ctgttaattg tcagttcagt gttttaatct gacgcaggct tatgcccagg 60  
 agaatgtttt catgttactt atactaacat tagttcttct ataggggtgat agattgggtcc 120  
 aattgggtgt gaggagtcca gttatatgtt tgggattttt taggtagtgg gtgttgagct 180  
 tgaacgcctt cttaattggg ggctgccttt agg 213

<210> 601  
 <211> 471  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1  
 <223> n = A,T,C or G

<400> 601  
 ncctactatg ggtgtttaaatt tttttactct ctctacaagg ttttttctcta gtgtccaaag 60  
 agctgttctt ctttggacta acagttaaatt ttacaagggg atttagaggg ttctgtgggc 120  
 aaattttaaag ttgaactaag attctatctt ggacaaccag ctatcaccag gctcggtagg 180  
 tttgtgcgct ctacctataa atcttccacac tattttgcta catagacggg tgtgctcttt 240  
 tagctgttct taggtagctc gtctgggttc gggggtctta gctttggctc tccttgcaaa 300  
 gttattttcta gtttaattcat tatgcagaag gtataggggt tagtccttgc tatattatgc 360  
 ttgggttataa tttttcatct ttcccttgcg gtactatatc tattgcgcca gggtttcaatt 420  
 tctatcgctt atactttatt tgggtaaatg gtttggtctaa gggtgtctgg t 471

<210> 602  
 <211> 482  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 32  
 <223> n = A,T,C or G

<400> 602  
 tgagcataca gcaataaaaa taacataaatt tntatgtgta caatatattat ggaatacgtt 60  
 actggaacag ataaataaatt tagttaataa catgacaaag aacagaaaatt gtatacacta 120  
 tacagcatag taatagaata atgaatgatt aaagttatta atattaggta gaaaatgaag 180  
 ggtatctttg agagcagaac tcaaggaagc aagcaatttg ccttatgagg aaagagttac 240  
 ctgtggataa aggagaaact gaaaaattta caagtcaaga ctttttgagc aaaaacaaaa 300  
 atatgactat gagtcaccaa ttcagtagag tgaaaaaaa gttgaagaga tatcttgga 360  
 gtaaaccatg ttgtggaaga gcagggtttt gataatcatg ggattattct gaatgaattt 420  
 taaatgcgat aggaatatat gagataattt caccagagaa taatatgatc atgtttgcat 480  
 tt 482

<210> 603  
 <211> 372  
 <212> DNA  
 <213> Homo sapiens

<400> 603  
 gttccaacct tcattttctga aactgttcta gagcactttg tctttctcgt agttcataac 60  
 ttaccccttc agtctagaat tagaattaca ttatctgttt tactacttta ctagactgta 120  
 agctcttaga agataaggac tagggagttc atctctgtat tccaccagaa ggtacagtga 180  
 ctcataacta gagtcttttag atgaaactta ctgagttgaa taacttaata tattttctgtt 240  
 ttcatctcca agggaggcca tgtctggaga tagaccttga atttaataaaa ttttaggcac 300  
 tataaccattt cagtggagaa aattgttggg aaatttgggg ggatggatat ataaggggga 360  
 ggaagtcact gg 372

<210> 604  
 <211> 468  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 3, 37, 199, 412, 460  
 <223> n = A,T,C or G

<400> 604  
 gcngttttga gtagtcttct taatcctgag ttctggnttg attgcactgt ggtctgagag 60  
 atagtttggt ataatttctg ttcttttaca ctactgagg agagctttac ttccaagtat 120  
 gtggtcgatt ttggaatagg tgtggtgtcg tgctgaaaag aatgtatatt ctggtgattt 180  
 ggggtggaga gttctgtana tgtctattag gtccgcttg tgcagagttg agttcaattc 240  
 ctggatagcc ttgttaactt tctgtctcgt tgatctgtct aatggtgaca gtggggtgg 300  
 aaagtctccc attattattg tgtgggagtc taagtctctt tgtaggtcac taaggacttg 360  
 ctttatgaat ctgggtgctc ctgcattggg tgcacatata tttaggacag cnagctcttc 420  
 ttgttgaatt gatcccttta ccattatgta atggccttgn ctcttttg 468

<210> 605  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<400> 605  
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120  
 atttctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggagca gataaggaaa atgactatga gggcgtgac atgaaagggtg 240  
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgc 288

<210> 606  
 <211> 572  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5, 399, 483, 488, 532  
 <223> n = A,T,C or G

<400> 606  
 gaatnaaatg aatgaaatag aaaatataat tgagagcttc aacaacagac tataccaaat 60  
 ggaggaaaaa atttctgaac ttgaagatag atcttttgaa ataacacaag cagtggcaaa 120  
 aatgaattaa aaagaataag gaaagcctaa aggatttatg agatatcatt aagcaagcaa 180  
 atattcatac tatgggcatt ccagatggaa aaaagaaggg taaagggtgag gaaatcatat 240  
 ttaatgaaat aatagcagaa aatttcgga gtcttgagg agagatgagc atttaggtcc 300  
 agggagctca aagaacccca aacagattca acccaaacag gtcctctctg gagcccaaca 360  
 tagtcaaatt gtaataagta aaagacaaag aattccaana agcattcaag agaaaagagt 420  
 caagtcataa ataagggaat ctccattagg ctaacagcag atatctcagc agaaagctta 480  
 cangccanga gagaatggga tgatatattc aaagtacttg aaagcagggg tnggggaaac 540  
 cctgctagct aaaaatatta tacccttgca aa 572

<210> 607  
 <211> 178  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 37  
 <223> n = A,T,C or G

<400> 607  
 ctcggggtaa tctcccagca agaggtcagg tcttggtgt gcgtcccagg gtgtcagtga 60  
 aattggctgc tcccctgacc cagggcacct tcatgcgtct tcacagcagg actactgtga 120  
 ccaaggccag acctttcatc tttcaaaaga ctttgactaa aaatgcttta aaaaagca 178

<210> 608  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<400> 608  
 cctgtctttg aatggatgaa ataggttaat aaagaacatc actgtttaaa aactagaaca 60  
 ctgaaaaatt ctaggaaagc ttattttccc ttataatttt atggtaacttt caacacttaa 120  
 taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcctttct 180  
 gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt 240  
 caacggctgt catagtgatt aaccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300  
 cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360  
 atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata gtctgg 416

<210> 609  
 <211> 648  
 <212> DNA  
 <213> Homo sapiens

<400> 609  
 ctgatctctc agcagaaact cttcaaacca gaagagagtg ggggccaata ttcaacattc 60  
 ttaaagaaaa taattttcaa ccagaaattt catatccagc caaactaacc ttcacaagtg 120  
 aaggagaaat aaaatccttt acagacaagc aaatgctgag agattttatc accaccaggc 180  
 ctaccctaaa agagttcctg aaggaagcac taaacatgga aaggaacaac cagtaccatc 240  
 gaggctagga agaaaccgca tcaactaagg agcaaaataa ccagctaaca tcataatgac 300  
 aggatcagat tcacacataa cgatattaac tttaaatgta aatggactaa atgctccaat 360  
 taaaagacac agactggcaa attggataaa gagtcaagac ccatcagggt gctgtattca 420  
 ggaaacccat ctaccgtgc agagacacac ataggctcaa aataaagggtc tggaggaaga 480  
 tctaccaagc aaatggaaaa caaaaaaagg caggggttgc aatcctagtc tctgataaaa 540  
 cagactttta accaacaag atcagaagag acaaagaagg ccattacata atggtaaagg 600  
 gatcaattca acaagaagag ctaactatcc taaatatata ttgcaccc 648

<210> 610  
 <211> 310  
 <212> DNA  
 <213> Homo sapiens

<400> 610

```
<210> 611
<211> 254
<212> DNA
<213> Homo sapiens
```

```
<400> 611
ctgttttttac atctaaagca atagactaga actgaattnt cttctacata gtaaaatcac 60
aattgtggaa ttacaggaat tctgggtgata ttaaggtgaa acaacaaaac acaaaaggcc 120
ctatttttaac agttgatgtg acagtaagtt ttaatagaac ctgtaacttc attttggaag 180
tgctttctoca ccaataaagg cctttttccc ctatttaagg agccagatgg attgaaagat 240
tgggaaatag gcag                                     254
```

```
<220>  
<221> misc_feature  
<222> 40  
<223> n = A,T,C or G
```

```
<210> 613
<211> 471
<212> DNA
<213> Homo sapiens
```

```
<400> 613
ccatcagact tcttgggtgc ctggctatat tcaatgtgaa gtaaaaaata tcccaagtct 60
tacacaaaaa tagaggctct gacttagaag tatgctttta gctttctttt taaataagac 120
```



```

attctggaag aaaaaaaaaaag aaaaaggaaa gaaaatcaag tttgaaacac agttaacact 180
tattttggca agaaagcaac caaaatctaa aaagcataaa ctatgngtcc aaatgnaaaa 240
ggnattacag aacaaaactgc aagaggggaa aattaaagcc ncaactgaacg aaaaaataca 300
gtatgtctaa catttttgaa ttgnaattta aaccctaagg gcaaaagctg aaaaatcatg 360
cttanacctn ggncgngacc acnctaaggg cgaattccan cacactggcg gncgttacta 420
gtggatccna nctcgggtacc aagcttggcg taatcctngg catagctggt t 471

```

<210> 614

<211> 421

<212> DNA

<213> Homo sapiens

<400> 614

```

gttattttttt agaatggctc tcccatcttg agtatgtgtg atgtttcctc atgtatgaat 60
gaagcatata catctttgtc agaagtatcc cagaagcaat tctgtactct cctcattatg 120
ttctattggg tgggccatgg tttttgattt gtctcattac tgatgatggg tacttttatt 180
at ttgataaa ggttgatat aacttatcta ttatggcata atacattagc taaaaccttg 240
gcggtgtaaa acagcagata cttacgtttc tcataggaat ggctctattg agtacctctg 300
tctcaaggct tctcaagagt ttgtagctac cttgttggct ggggttgcg tctgacctaa 360
aggcttagtt aggggggtgg agaaatcttc catatgttct ttgctacgtg gacctcacag 420
g 421

```

<210> 615

<211> 242

<212> DNA

<213> Homo sapiens

<400> 615

```

cctcctattt attctagcca cctctagcct agccgtttac tcaatcctct gatcaggatg 60
agcatcaaac tcaaactacg cctgatcgg cgactgcga gcagtagccc aaacaatctc 120
atatgaagtc accctagcca tcattctact atcaacatta ctaataagtg gctcctttta 180
cctctccacc cttatcacia cacaagaaca cctctgatta ctctgccat catgacctt 240
gg 242

```

<210> 616

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 79, 91, 105, 110, 128, 141, 149, 163, 172, 178, 193, 206,  
215, 264, 270, 276, 284, 297, 305, 315, 335, 342, 350, 351,  
359, 373, 392

<223> n = A,T,C or G

<400> 616

```

cctaatttgt agattgtgaa agcagctttt agtttaactt atttacagac cccttataat 60
taccatgttt tttttttnt tctaaaatct nttggttcag cttngaatn ttacgtgccc 120
gtaaagtngg gatgttgaat nggcccttnt ttgttctggc agngagtcaa gngtccanca 180
ttttttcata agngtttttt aaaatngttc tccancattt tatggctcct ccctcccatg 240
tctcaaaacc cagcaaaagc gtanaggcan aattanagga cccncccggg cggccgntaa 300
gggcnaattc cagcncactg gcggccgtta ctagnngatc cnagctcggg nccaagctng 360
gcgtaatcat ggncatagct gtttctctgt an 392

```

<210> 617  
 <211> 215  
 <212> DNA  
 <213> Homo sapiens

<400> 617  
 cctactatgg gtgttaaatt ttttactctc totacaaggt tttttcctag tgtccaaaga 60  
 gctgttcctc tttggactac cagttaaatt tacaagggga ttttagagggt tctgtgggca 120  
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggttaggt 180  
 ttgtcgctc tacctataaa tcttcccact atttt 215

<210> 618  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8  
 <223> n = A,T,C or G

<400> 618  
 cttttgtntg cctgttttgt ggactggctg gctctgttag aactctgtcc aaaaagtgca 60  
 tggaatataa cttgtaaagc ttcccacaat tgacaatata tatgcatgtg tttaaaccaa 120  
 atccagaaaag cttaaacaat agagctgcat aatagtattt attaaagaat cacaactgta 180  
 aacatgagaa taacttaagg attctagttt agttttttgt aattgcaaat tatatttttg 240  
 ctgctgatat attagaataa tttttaaatg tcactctgaa atagaaatat gtattttaag 300  
 cactcacgca aaggtaaagt aacacgtttt aaatgtgtgt gttgctaatt ttttccataa 360  
 gaattgtaaa cattgaactg aacaaattac ccataatgga tttggttaat gacttatgag 420  
 caagctgggtt tgg 433

<210> 619  
 <211> 259  
 <212> DNA  
 <213> Homo sapiens

<400> 619  
 ctgcagtgtc cttttttata tcatgctagt gttgagacat acttgactaa cttgggaaca 60  
 gttcgatata ttgacaaccg tcaacttaag aaaatcaaca gcttttggcc ccagcgtcca 120  
 agtgaacttt tcatggagtg cagaatctca aatggacaaa atactttgtc tttttaaata 180  
 ctgaaaattt aattattagt actatgactg aaagattctt catggctaaa aagctctgca 240  
 tcaaactcaa ttcaggagg 259

<210> 620  
 <211> 393  
 <212> DNA  
 <213> Homo sapiens

<400> 620  
 ccaccaaagc cacacggaga ttctgtcagg cgctgagaca ccacagcctt ttcaatctta 60  
 gggaaagaaa tcaagtcata taaattaata tcaacaggta aggtcattga gcaattgtct 120  
 ttcaactgtc taagacttta tcaacttaaga tcataaacac agaagcaggt cataaaaaata 180  
 gcttttctta aggttttagga gaattttag gggcacttac ttgataatct gaattttcta 240

```

gtcagaagtt taaataccac cttttaaaaa cataaaatTT aatttgtaac aagttattaa 300
caaagcagta ttgtcgaaag ttttaagctt tctcccaata atttaattac attaatataa 360
tttttaccat tctaattggtt acaaagtaac cag 393

```

```

<210> 621
<211> 563
<212> DNA
<213> Homo sapiens

```

```

<400> 621
ctgacaatga taaaattatc tctatatggg caaacgcgtg ctctttgtcg aagaagaaag 60
cttcagcttc atgttccagg tgagttaatt aggcaatgta tgaatgctaa tatctctttc 120
acataattttg cttaagatct gtcttaggac tctcgtctgg cccatatggt tttccaaggg 180
cagaagggcc tctttttgat gagaggcagt tttcagtaac tcttaaagtg ataacagcaa 240
aggagaggag agagaagagt aagacaaatc gaaacattct tcaattgctt cttggccttt 300
tggctaagct caagctcaaa acaggctctc aaggagaaaa tacatcacia agaaaaggat 360
gtttttatttc ttaccttgct ctagaaaaat ttccataaac tctattggct taattctgta 420
aacttgacca atatcagagt gcttctacc aaggagggtg gctgatgagc gtgaccatgg 480
tacatcctag aagaatgtgt gatgaagaag ctttcaccgt gtaaaagagt tgaaaattat 540
tcaaggagac attatggtct tgg 563

```

```

<210> 622
<211> 505
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 194, 436, 484
<223> n = A,T,C or G

```

```

<400> 622
tcttaagtgt gttaataga taaagtaaac tttcctagtc aagggttaga tttttattat 60
ctcttgtgtt ccgactttct acttttcaac ttggaacttc aaaaaaacat tactttgctt 120
atccttttga ctttgatcag gttgtttaga attgtagatc aaaccattct ttgatcattt 180
tattgtttta atgnttagtt ccatttataa tttttatagc caactctcgg ttatttctgt 240
cttttgagat tgcaattcag aagctgtatg tcgaagtaat ttatgagttg acttttatac 300
ttaggcttct ttaaatacta atagtcaaga attctagagc atctaataaa aaattaactt 360
tcagatcatt gggaatctgt cctcatttaa atatgtgtaa atgcatttcc acagcaaatt 420
gcttcatgcc ctttgnctat aaggaaatta ttcctttag ctaatacatt tttcattttg 480
cagnccaaat ctttttttag aaagg 505

```

```

<210> 623
<211> 489
<212> DNA
<213> Homo sapiens

```

```

<400> 623
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttctct tttggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120
aattttaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggttagt 180
ttgtcgctct tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360

```

```

tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt 420
ctatcgctat actttatttg ggtaaattgg ttggctaagg ttgtctggta gtaaggtgga 480
gtggggttg                                     489

```

```

<210> 624
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 624
gttggggaac agctaaatag gttgttggtg atttggttaa aaaatagtag ggggatgatg 60
ctaataatta ggctgtgggt ggttggtgtg attcaaatta tgtgtttttt ggagagtcac 120
gtcagtggtg gtaataataa tgttgggacg attagtttta gcattggagt aggttttaggt 180
tatgtacgta gtctaggcca tatgtgttgg agattgagac tagtagggct agg          233

```

```

<210> 625
<211> 459
<212> DNA
<213> Homo sapiens

```

```

<400> 625
ttcgagaaca tttttaataa ataatgtgac aaaattactt ttctgattat tggatttttca 60
gtatgcaaaa ttatggctaa aaataagggg ctctctacat gaacataatg aaaacattaa 120
tcacatggat tgttccctta gtactgcacg ccttttctat ggaacttttt caaattatct 180
aaatgaacaa gtttggtttt ggtgaacacc agcctttttt tttgtgggtc agttttgttt 240
ggctttgtct tccactgggg tcagacctga tacttatcta tctatgaata aatgtacatt 300
tttttcttca aatagcacca attataaaat caatgatatt cataaaatga caaaaaagga 360
tcatagaaat ctactagtca gagggcatca tttgtcaatt gaaagcaagt aatgcctcta 420
ttagagattt taaggaaatc ttgtagggtt cgacattgg          459

```

```

<210> 626
<211> 458
<212> DNA
<213> Homo sapiens

```

```

<400> 626
cctgatgatt gttttaaaca gtagaaaggg ttcagctaag aactacagtc cactctcagc 60
cctgtcatgt actataggac aagtcttcat tcacaacaaa tggatagcaa caccaatctc 120
gtaacactgg gaaaactgca tacaatattt agaaggaaca ctaatacagc agaatctgca 180
cacaacggag tcaaagatct gaggccaaat cctactacac ttacgactt tgagttggtc 240
acttttctga acctagctt ctccatcagt gtaaaactga tgtaaaataa tataaagcta 300
tatgaaagct gatgtgattt acttgtgaaa tagtatgtgc aaaaggactt tgtaaaatgt 360
aaagcactat gctggttatt gtgatatctg agatattttt aaagttgcaa ttcaattcaa 420
caagcattca tttagagtca tgtgcaaggc actgtgct          458

```

```

<210> 627
<211> 393
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5, 6
<223> n = A,T,C or G

```

cctatnngaac	gcactcagga	ggtggtttgt	tctggatgca	gaaaccagag	atctagtttc	60
tatccacaca	gacgggaatg	aacagctctc	tgtgatgcgc	tactcaatag	atggtacctt	120
cctggctgta	ggatctcatg	acaactttat	ttacctctat	gtagtctctg	aaaatggaag	180
aaaatatagc	agatatggaa	ggtgcactgg	acattccagc	tacatcacac	accttgactg	240
gtccccagac	aacaagtata	taatgtctaa	ctcgggagac	tatgaaatat	tgtactggga	300
cattccaaat	ggctgcaaac	taatcaggaa	tcgatcggat	tgtaaaggaca	tttgattgga	360
ccgacatata	cctgtgggct	aggacttcca	gga			393

<211> 233

<213> Homo sapiens

```
<221> misc_feature
```

<223> n = A, T, C or G

cttgatttat	aaaatagttg	aatgacaaaa	gaagnntggt	ttgacagtaa	aaaaaagaca	60
ttatggacaa	aatatgcaaa	atgtgcaaag	aaaaaataaa	tttgcattag	aaaggtgggc	120
atttgatctc	tgagccctgt	gccatgtaac	attgccatgt	tctttcactg	ttgtttgaat	180
gttgtacccc	ancccttgac	tctggactta	aggcaagcta	tgactggctt	tgg	233

<211> 450

<213> Homo sapiens

<221> misc feature

<223> n = A, T, C or G

cnnngacaat	ntaggcagga	gaaggaaata	aagggtattc	aattaggaaa	agaggaagtc	60
aaattgtccc	tgtttgcaga	tgacatgatt	gtatatctag	aaaaccccat	tgctcagcc	120
caaaatctcc	ttaagctgat	aagcaactcc	agcaaagtcg	caggatacaa	aatcaatgga	180
cacaaatcac	aaacattctt	atacaccaat	aacagacaaa	caggaggccaa	atcacgagtn	240
gaactctatt	ccaatttgct	tcaagaaaaa	taaaatacct	agggatccaa	cttacaaggg	300
acatgaagga	cctcttcaag	gagaaactac	aaaccactgc	tcaatgaaat	aaaagaggat	360
acaaaagaat	ggaagaacat	tccatgtctc	ttggtagctt	gatggggatg	gcattgaatc	420
tataaattac	cttgggcagt	atggacctca				450

<211> 486

<213> Homo sapiens

cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
gctgttcttc tttggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120

```

aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt 420
ctatcgcta tactttattt gggtaaattg tttggctaag gttgtctggt agtaagggtg 480
agtggg 486

```

```

<210> 631
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<400> 631
tttacataaa tattatacta gcatttacca tctcacttct aggaatacta gtatatcgct 60
cacacctcat atcctcccta ctatgcctag aaggaataat actatcactg ttcattatag 120
ctactctcat aacctcaac acccactccc tcttagccaa tattgtgcct attgccatac 180
tagtctttgc cgctgcgat gcagcggtag g 211

```

```

<210> 632
<211> 293
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 191, 262
<223> n = A,T,C or G

```

```

<400> 632
cagcgcaagt aggtctacaa gacgtactt cccctatcat agaagagctt atcacctttc 60
atgatcacgc cctcatagtc atttttcctt atctgcttc tagtcctgta tgcccttttc 120
ctaactca caacaaaact aactaatact aacatctcag acgtcagga aatagaaacc 180
gtctgaacta ngctgccgc catcatccta gtctcatcg cctcccatc cctacgcac 240
ctttacataa cagacgaggt cnacgatccc tcccttacca tcaaataaat tgg 293

```

```

<210> 633
<211> 263
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 194
<223> n = A,T,C or G

```

```

<400> 633
nggtctgcag tgtccctttt tatatcatgc tagtggtgag acatacttga ctaacttggg 60
aacagttcga tatattgaca accgtcaact taagaaaatc aacagctttt ggccccagcg 120
tccaagtga cttttcatgg agtgcagaat ctcaaattga caaataactt tgtcttttta 180
aatactgaaa attnaattat tagtactatg actgaaagat tcttcatggc taaaaagctc 240
tgcataaac tcaattcagg agg 263

```

```

<210> 634

```

<211> 491  
 <212> DNA  
 <213> Homo sapiens

<400> 634  
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
 gctgttcctc ttgggactaa cagttaaatt tgcaagggga tttagagggt tctgtgggca 120  
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180  
 ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240  
 agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300  
 ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360  
 tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt 420  
 ctatcgcccta tactttattt gggtaaatgg ttgggctaag gttgtctggt agtaagggtg 480  
 agtggggttg g 491

<210> 635  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 635  
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60  
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacgggttct 120  
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180  
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240  
 ataagctctt ctatgatagg ggaagtagcg 270

<210> 636  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<400> 636  
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
 gctgttcctc ttgggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120  
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180  
 ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240  
 agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300  
 ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360  
 tggttataat ttttcatctt tcc 383

<210> 637  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 26, 516  
 <223> n = A,T,C or G

<400> 637  
 ttttaatcct ggggtatata ggcagnactt taaattgcaa agtcttccgg gcctattttc 60  
 ctctacattt ttgtaattaa ctctgggggc ttacttggtt tggcagtact gaaatcaaag 120

```

gagctgggttc ttctttttctc ccaattatth tcatatgaaa gcacctacaa ttagcctggt 180
agtcctattc agatacatca aatatcagtg aatgctttac tattcgaca ttttaagcatc 240
tttgtttttac ataaaattag agtatgaaaa ccagtggttca atttttttatc ttgttgagct 300
tgtaaaatgc cagcaattta aaactaggac ttttcccccc ataagccaag gaggtagaat 360
tactaataca aggggttaaag aaggtagatt ttgttttcaa tatttgggta atattagaaa 420
gattctttccc acaggggaaga actagcaagt gtcccaatth tttccaaacg ttgggggaggg 480
gaaaattcac tgtatcatga aaccctaagg gtttgngtgc acttcctgct ttttagg 537

```

<210> 638

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 15

<223> n = A,T,C or G

<400> 638

```

ccagcagaac acagnagtga tttgggtcccg tttgttcccc agtgggggtat ctatccttgt 60
gcaggggcaca agcctacatg gtggctctgg tcatatcatt agaaaataga cagaaatggg 120
ctgcacacca gaatgaatga attgaattga aaggaggag tgatgggtgga aaaaaaaca 180
agtcaattca tttagactgg tagaaccaga accactgtgt agtacatcca aacgggttaa 240
attccctgga agatgtttaca taatcctatc atgggtgtta tttatggaaa tctattttta 300
aaattttatg taatactgca cagtctgttt gcatgatgcc ttgtacgtag tagcaactca 360
gtaaatactt tttgaatgaa ctagtatagt attttaatta gctagtcttc gtgtactggt 420
acaaaagaac agtgtcatct tacag 445

```

<210> 639

<211> 584

<212> DNA

<213> Homo sapiens

<400> 639

```

gcttgagtat tctatagtgt cacctaaata gcttggcgta atcatggtca tagctgtttc 60
ctgtgtgaaa ttgttatccg ctcaaatc cacacaacat acgagccgga agcataaagt 120
gtaaagcctg ggggtgcctaa tgagttagct aactcacatt aattgcgttg cgctcactgc 180
ccgctttcca gtcgggaaac ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg 240
ggagaggcgg tttgcgtatt gggcgctctt ccgcttcctc gctcactgac tcgctgcgct 300
cggtcgttcc gctgcggcga gcggtatcag ctactcaaa ggcggttaata cggttatcca 360
cagaatcagg ggataacgca ggaaagaaca tgtgagcaaa aggccagcaa aaggccagga 420
accgtaaaaa ggccgcgttg ctggcggttt tccataggct ccgccccct gacgagcatc 480
acaaaaatcg acgctcaagt caagaggtgg cgaaaccgga caggactata aagataccag 540
gcgtttcccc ctggaagctc cctcgtgcgc tctcctgttc cgac 584

```

<210> 640

<211> 404

<212> DNA

<213> Homo sapiens

<400> 640

```

ccataggaac gcactcaggc aggtgggtttg ttctggatgc agaaaccaga gatctagttt 60
ctatccacac agacgggaat gaacagctct ctgtgatgc ctactcaata gatggtacct 120
tctgggtgtg aggatctcat gacaacttta tttacctta ttagtctctt gaaaatggaa 180

```



```

gaaaatatag gagatatgga aggtgcactg gacattccag ctacatcaca caccttgact 240
ggtccccaga caacaagtat ataatgtcta actcgggaga ctatgaaata ttgtactggg 300
acattccaaa tggctgcaaa ctaatcagga atcgatcgga ttgtaaggac attgattgga 360
cgacatatat ctgtgtgcta ggatttcaag tatttggtgt ctgg 404

```

```

<210> 641
<211> 138
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 127
<223> n = A,T,C or G

```

```

<400> 641
ctgtgacagg aacattacct gaagtgcagg gtggttacct gcacaaagtc ccattttccaa 60
aaattttctgt gtaattcacc agaaattttg gatggaataa ttagaaaaaa aaaaagaggt 120
taaaacntgt aactcaaa 138

```

```

<210> 642
<211> 381
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 372
<223> n = A,T,C or G

```

```

<400> 642
ctgtagggtgg aattttttacc cagaaaagat aggccctaga agcctcattt cttttctcca 60
tggaaaagga cagccctctg ctgcagcggt caacttgtgt gtttactgac agagtgaact 120
acagaaatag cttttcttcc taaaggggat tgttctacat tttgaagtta ttttttaata 180
aaattgaatt atgttgtgta ttgtgcttcc taataggaaa tgcattattg gactgttttt 240
gtaacatcct gtttattgca aatagctagt atcgttcaaa aactgtataa aatacttttg 300
tacatattag caatgtctaa tttgtataca cttcagttaa atttccctaa aacttgaaag 360
gggaccttgt anaaattaaa a 381

```

```

<210> 643
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<400> 643
ccttcctaaa aaatagtggg gagctggagg ctacttccgc cttcttagcg tctggtcaga 60
gagctgatgg atatccatt tgggtccgac aagatgacat agatttgcaa aaagatgatg 120
aggataccag agaggcattg gtcaaaaaat ttggtgctca gaatgtagct cggaggattg 180
aatttcgaaa gaaataattg gcaagataat gagaaaagaa aaaagtcatt gtaggtgagg 240
tggttaaaaa aaattgtgac caatgaactt tagagagttc ttgcattgga actggcactt 300
attttctgac catcgctgct gttgctctgt gagtcctaga tttttgtagc caagcagagt 360
tgtagagggg gataaaaaga aaagaaattg gatgtattta cag 403

```

```

<210> 644

```

<211> 688  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 653, 666  
 <223> n = A,T,C or G

<400> 644  
 cctatatttatt tgtttttgcc ctggatcttt cctaatacaca attatatatttc tttatatttttg 60  
 ccttttgagca gtttcattta tctttgtggg caggaagat taaatatgaa attcagtcca 120  
 gtcatttttg tactggtttag ctttagtttg aggcaagtaa aaatttttga ttaaaatttag 180  
 tttcttaaaa ttatgccctt gctttaccaaa ataatacaaat tggctaaaaa ataagggtat 240  
 gtaacttttg attttgaaga acaaaccaat aatttttcat gagccctact cgatcttctt 300  
 taaagaagac cttcctaaga gacaattagg gatgagtttg attaatggga aatagctcta 360  
 ggtagatta ttttaaattc catacaccaa gtgatttaac cacagtggca gtggcagctt 420  
 ctgaaccgtc aagtatgaac atcacttaaa aattaaaaga tgcttaataa taaactctta 480  
 attttcatta agccaatctg taattcagaa gaaaagcata tgtctgccat gggactattg 540  
 cagtgcgtct ccattcagtg taacacagga gagatatgtt attttatgtg tatgtcttag 600  
 tttgggatat gtggtagtaa gaacatgtca agagtgtctt tcttcaaacc tgnccagctca 660  
 actgangaaa gacaggtact tccattgc 688

<210> 645  
 <211> 484  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 460  
 <223> n = A,T,C or G

<400> 645  
 ccaaattgtgt ctccagccca cacttccagg tggcagagcg agctctctat tactggaata 60  
 atgaatacat catgagttta atcagtgaca acgcagcgaa gattctgccc atcatgtttc 120  
 cttccttgta ccgcaactca aagacccatt ggaacaagac aatacatggc ttgatataca 180  
 acgccctgaa gctcttcatg gagatgaacc aaaagctatt tgatgactgt acacaacagt 240  
 tcaaagcaga gaaactaaaa gagaagctaa aaatgaaaga acggaagaa gcatgggtta 300  
 aaatagaaaa tctagccaaa gccaatcccc aggtactaaa aaagagaata acatgaaaac 360  
 gccagggtt acttgaatgt ttttataaga taggaatata tgtcttcacc atgggggggg 420  
 gtctcggtatt tctaactcgt tgtatatgaa aatgggtgcn ataaaaagta cttttaaact 480  
 ttgt 484

<210> 646  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 413  
 <223> n = A,T,C or G

&lt;400&gt; 646

```

gggtcgcggtt gaacaacttg gttcaagatg gtgggggcat ttttagagcg gcaataattg 60
aaaaaaaaagg cgaactctgc cttggagagg tagatgataa gaaataaaaa ggtgtttata 120
actatTTTTgt attataaagt gggccttaga gataggaaga agaagatgag attccttttg 180
gatcaatcag aaaggaaaca cgaaagaaaa gtcaggaagg tagagagaga aaaagggagg 240
gaaggagaaa gaatgggaat aaaataagga ggtaagagat actatTTTTg ctgagcaacc 300
agtgtgtttc aggatgatac aaagaaaaat atagaataga aataagtgc ggcttggaat 360
cagctacaaa tcctaaagat ggggtgtgtg tggatgtgtg tgtgtgtgtg tgnacaccat 420
tgtgtgtttg taaaatgtgt atgtccc 447

```

&lt;210&gt; 647

&lt;211&gt; 388

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 647

```

gaaggtgata taaaatgact gtcatcattt ggagtgtgca gtacagttac ttcattgttcc 60
tcaggttttag aacaatttcc cctgcaagtt ctcacacaga taggcagaaa tcataactaa 120
ttttggttaa tcactatggc agccgttgaa gaatttaaga gaacctgcc gtaagatttg 180
gaataagatt ctatattatt gcattccacag aaaagaatgt actgatatac tataaactct 240
aggagaaaaac ttaattgaaa tagtgttatt aagtgttgaa agtaccataa aaatataagg 300
gaaaataagc tttcctagaa tttttcagtg ttctagtttt taaacagtga tgttttttat 360
taacctattt catccattca aagacagg 388

```

&lt;210&gt; 648

&lt;211&gt; 632

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 12, 24, 33, 483, 539, 626, 629, 630

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 648

```

cctggctggg cntttgacct gcgnttttaa atnactcaca gagggtgagg caggaggaag 60
agtgaaggaa aaggtcaaac ctgttttaag ggcaacctgc ctttgttctg aattggtctt 120
aagaacatta ccagctccag gtttaaattg ttcagtttca tgcagttcca atagctgac 180
attgttgaga tgaggacaaa atcctttgtc ctcactagtt tgctttacat ttttgaaaag 240
tattatTTTT gtccaagtgc ttatcaacta aacctgtgtg taggtaagaa tggaatttat 300
taagtgaatc agtgtgacct ttcttgtcat aagattatct taaagctgaa gccaaaatat 360
gcttcaaaaag aagaggactt tattgttcat tgtagttcat acattcaaag catctgaact 420
gtagtttcta tagcaagcca attacatcca taagtggaga aggaaataga tagatgtcaa 480
agnatgattg gtggaggagg caaggttgaa gataatctgg gggtgaaatt ttctagttnt 540
cattccgtac atttttagtt agacatcaga tttgaaatat taatgttacc tcctcaatgg 600
ggtggtatca gacctgccg ggcggnccgn tc 632

```

&lt;210&gt; 649

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

<222> 1, 15  
 <223> n = A,T,C or G

<400> 649  
 nggtgaagat agaanaaata taagcgaaat tggataaaat agcactgaaa aaatgaggaa 60  
 attattggta accaatttat tttaaaagcc catcaattta atttctggtg gtgcagaagt 120  
 tagaaggtaa agcttgagaa gatgagggtg tttacgtaga ccagaaccaa tttagaagaa 180  
 tacttgaagc tagaagggga agttggttaa aaatcacatc aaaaagctac taaaaggact 240  
 ggtgtaattt aaaaaaaact aaggcagaag gctttggaag agttagaaga atttggaagg 300

<210> 650  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 4, 8, 26, 255  
 <223> n = A,T,C or G

<400> 650  
 ngtnctgnta aacagaaggg tacaangccc ttctggcttt aagcagtcac aggaatgtga 60  
 cagacattcc tcttagggag cgcctcctcc tagggtttcc tcatctgtct cacactgagt 120  
 ggatgtaatg ctatttttaat cctgctgtgg cccccaatac tagtacttgt ccataccttc 180  
 ttgcattttt agcgtctgct ctgtggggtt gtagggcctt ggcactccca ggaactagt 240  
 ctaaagctgc atctntctct cccctctagg gatcgataaa gtttactgct agaaagtctc 300  
 cactgcggtg tgctgacatc tgccctgaac cttcacccta cagcattaca ggctttaatc 360  
 agattctgct ggaaagacac aggctgatcc acgtgacctc ttctgccttc actgggctgg 420  
 ggtgatcctt ggtgcctttg tttccacaag gccttttctt gccccctgcc ttgccaaaga 480  
 catttaatca gcacacag 498

<210> 651  
 <211> 654  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 149, 268, 375, 508, 578, 595, 615  
 <223> n = A,T,C or G

<400> 651  
 ctgagggtcc ccagggtttt aaagctctca ggacgagaaa gtaggtccca agataaggag 60  
 cctaaagggc ttttttcttt ctgtgtattc cttcttggtc tccaacatgg gtacagtcac 120  
 aagagcatgt aacagagaag aaggactana cctaccattt tctggataaa gaattggaaa 180  
 gaggatccac aggttaaccaa aaagtaccag ggaaatggca gagaaggaaa acctcaggag 240  
 accaacctca taagtggat ttattagncc ctgggctcaa atccaaattg tacatgaata 300  
 tgtctggtcc tagatagggt accgaagact ttgaaaagtga attttggtat atcattgccc 360  
 agattccaga ctggnatttg tgtgacacaa catacaggat atatctgaat agtgctcaga 420  
 agagtttgaa aatgcaaatt atattaaaat aaagatgaaa aagagaaaagc tggtcagaac 480  
 ttgtggacat aacccttctg gatctgtngc ctgattaaaa aatagttgat attctcgaat 540  
 gaattaaaac aagattttaga gactgagcat ggtagctnat tcttgtaatc caacnctttg 600  
 ggagggcaag gcaanagaat tgcttgccgc caggagtttt gagaccagct tggg 654

<210> 652  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 193  
 <223> n = A,T,C or G

<400> 652  
 ngctctgttgc actgaggtga ctaaggatac attttgagga agtagctcca agaacatttc 60  
 cattttcact gtgccttcac atacatctaa tggaaatgaa cagcaccctt catccatcca 120  
 cggaagcgat taagaaaagg gtgggatgga aaaattaacc caacaatatt agatcaatac 180  
 gtagtatttta agngtccata atgtgccagg ctgaagatgc acgggaaaac cacactagcc 240  
 ggtctgtcaa gggcttgaga ataccataaa caagaaaaca gacgaaccaa ttt 293

<210> 653  
 <211> 294  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1  
 <223> n = A,T,C or G

<400> 653  
 ngtcaccac tgcagcccta catacagttg aaaaaaaatt ccattctggtt aacatttggtt 60  
 ttataagttt tcacgcaata cacaaaaaac ccctctgcac ttcttgtaaa gaacaaaaaa 120  
 gatacacaac agttaagcgt aaagatcaca ggcaatagca ttcaaacaatg gatgtgggta 180  
 gagaaaggag tacctggcat gagtacctgc ttagtttgac tgaatccttg atttttaatt 240  
 tggtttttca tgggcccgtc acaacaccaa cgctgtgtga ggtatggtag tcag 294

<210> 654  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<400> 654  
 ctgtccttga acaagtatca atgtgtttat gaaaggaaga tctaaatcag acaggagttg 60  
 gtctacatag tagtaatcca ttgttggaat ggaacccttg ctatagtagt gacaaagtga 120  
 aaggaaattt aggaggcata ggccatttca ggcagcataa gtaatctcct gtcctttggc 180  
 agaagctcct ttagattggg atagattcca aataaagaat ctagaaatag gagaagattt 240  
 aattatgagg 250

<210> 655  
 <211> 494  
 <212> DNA  
 <213> Homo sapiens

<400> 655  
 ccattataat tttataacac cattaccctt taaattctac cgattataag cagcgtaaaa 60

```

gtaactatat aaagcaaaca tcgcaaagga actctgcagg agctcttaat tcctttatgt 120
agctatcata aaattcactt tcctgaagac atttactctc attcacttcc aaactccaaa 180
cctttttctg gtagcaccac ttttgttttt aatagaaaaga tgagttcata tctgtacatc 240
tctccaaagc tctaaggaat gagaaaagga tcctagtata ttgaaattac tgatgtttta 300
tacctctgcc ttttacttaa aagccattta atatttttaa agtcaaaact tgacatacag 360
gtatttataa ggaatctcca tgactctgaa ggaatgaaat tgatgtaggt agctttggct 420
atgtaaagac atagtagagg acaattactt aaagaagagt tttcttttga ggatttgtag 480
atttgactaa gcag 494

```

<210> 656

<211> 477

<212> DNA

<213> Homo sapiens

<400> 656

```

cgcgttactg tacatattgc tagcaggaga caactggaaa tactaaacaa atactggaat 60
tcacattaca gacagacgaa accaacatgg atgccacaca taacttcctt tgtagtttca 120
cagagggcct atttgtgggt gctcagggtg ggtcatacat tgcttgacaga aatggcctga 180
tcatagctct atgaaacaat gaattcggaa tgaaatctta ccatgacacc tctctgtagg 240
aaagaaatgt tgcttcacgt gtgctaagtt gagataataa tatttcacat atttatatac 300
agagaatcac tctcaaattt aacccaagat aagcaatagg atttgggggt gacttgtaca 360
cattttctaac aacacttttc ttttttctag aggtcactct caaacactga tatatcacta 420
tagtttgagt gtagggatgc agtaatcaaa ggttggttatt gcaaaagagc caggcag 477

```

<210> 657

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 13

<223> n = A,T,C or G

<400> 657

```

cctctacctg tanatcacta tttttctaaa gacaatttgg tgttttgaag ataaatgtca 60
ttagtctatg ataatagcat cataggacaa ttagccattt tagacttgac catattttct 120
cttttttagca tatagccatc ttgatattta ggtgggagac tactccaatg gagcaacagt 180
ttcattttac atgattggat tttagaaattt acaaatttta aactcataag aattctaaat 240
aatttgaaaa tggaaacatt tgacccacag tctagcagca taaatacatt tataaaatac 300
ttcattgttg atcttaggtc attgatttaa aacagaattt ggtgactatg ggcaggtgga 360
ggggggccagt gaggaaggta taaaagagaa atctttatga attgtgttca gattgatttt 420
gtataaacat aatatattca tggttgtatc tcttattttat aatacccaac taacatgaag 480
gtggtccaag ggaaggatca atatttttaa taacatattt gcttaaaata tcatacagtg 540
gctgcttcac aaaaaatctt ataaactttt attacc 576

```

<210> 658

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 14

<223> n = A,T,C or G

<400> 658

```
cctgaaaaga aagntgctct tatggactct tgcattgtta gactatgtct tcacatcatg 60
gtgcaaatca catgtaccca atgactccgg ctttgacaca acaccttacc atcatcatgc 120
catgatggct tccacaaagc attaaacctg gtaaccagag attactgggtg gctccagcgt 180
tgtagatgt tcatgaaatg tgaccacctc tcaatcacct ttgagggcta aagagtagca 240
catcaaaagg actccaaaat cccataccca actcttaaga gatttgcctt ggtacttcag 300
aaagaatttt catgagtgtt ctttaattggc tggaaaagca ccag 344
```

<210> 659

<211> 230

<212> DNA

<213> Homo sapiens

<400> 659

```
ctgctttccc tgctaaacag ttccagagca aaagcagcaa aaagaaaata tgggagggat 60
atgggcaacg tatactcgaa cgtacgcaga gaagagagta cggtagctc taatatttct 120
cattgaactt ggtgggtatgt gccttccttg catataaggc catagtgtt ttttgggagc 180
gctagaatat ccatccactt gacagtgacc acaaaatagg ctgtttccag 230
```

<210> 660

<211> 80

<212> DNA

<213> Homo sapiens

<400> 660

```
ctggtccttg ttaaactcga tcaccacttt ggagagatcg actggagggt cctgggtgtt 60
ctgagggggc tgggggacag 80
```

<210> 661

<211> 535

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 411, 413, 416, 422, 439, 470, 471, 479, 490, 492, 496, 501, 511

<223> n = A,T,C or G

<400> 661

```
ctgaaccata tctgattaac tcttttgtct ctgttatttg aacaaaaccg acgctatgcc 60
tgcagccgcc agactgcaac caaaaacaca gtttggggtc agaagacatt aaaaatcaca 120
ataaaatagg atgaatgttc taagtcacgc aactgaatca aggcaacctt ttttttcaaa 180
agcaaaaagt tgtttaacaa tattccagaa tagtagatac ttcaaaaacc agattacagt 240
atatacatt ttgctgcaca ttttagtcta ttttctgtat acatagtcac acattcttta 300
ccctctccca acttatacat gctttatccc ccagtcatg tgctatgtag gtataaaaaa 360
ataaagttgt atctaaacaa gtgattttaa aaaaaaaact aacgaatgcc ncnatnataa 420
cnctgaactt gtttccctnt tgaaggacat tggaaatgtt accgagggtt ntttacctng 480
gccgcaaccn cnctangggc naattccagc nactggggg ccgttactag gggat 535
```

<210> 662

<211> 257

<212> DNA  
 <213> Homo sapiens

<400> 662  
 cctgactaaa gcacatatca cactccctac acttccatgt tttctctccc atgtggaccc 60  
 tctgatgcat atcaagattc aagcgcctgt tgtagccctt cccacagtcc tcacatttgt 120  
 atggccttttc tacactgtga actttttctt gcactttaga gaatgaattc tgtacaatgt 180  
 tcttcccatg ctgctcacat ttgagagggtg tttctctgct gtggcgtctc tgatgggtca 240  
 gacgagttga ggaccag 257

<210> 663  
 <211> 516  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 36  
 <223> n = A,T,C or G

<400> 663  
 ccaattatag gtatttttatt ttttaaagat tagagngttc ttgaagctct ttctatttct 60  
 ttgtcaatga actaaacatt ggcaaatatg taggggttcc cacataagaa cattattaac 120  
 atcaaaatag aaagctgggtg gtagaaataa tgattgggaa cacagagtct ctactcagcg 180  
 ttctacttct gccataccat aactttgtga tctcacgaaa tatctctcca tgttctcatc 240  
 cctatgtata gttctgtcat ttttcaataa gagctttttg ctttaattatg aagtactagt 300  
 tactataacc attattttga gcttcatgta aatcaagaac acatggactc cacttgcaaa 360  
 acattgaaaa tgtagttagg gattgggggc aaaaagcaac attttaaaat gtgtaaagac 420  
 aatgagtaag caacaaagtg tccaattttt taggcgaaag ttgcatatgt caggaaaagg 480  
 caggattaag taatagagaa ttggaatgat aactgg 516

<210> 664  
 <211> 212  
 <212> DNA  
 <213> Homo sapiens

<400> 664  
 gtccgaggag gttagttgtg gcaataaaaa tgattaagga tactagtata agagatcagg 60  
 ttogtccttt agtggttgtgt atggctatca tttgttttga ggtagtttg attagtcatt 120  
 gttgggtggt aattagtcgg ttggtgatga gatatttgga ggtggggatc aatagagggg 180  
 gaaatagaat gatcagtact gcggcgggta gg 212

<210> 665  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 11, 18, 24, 270, 271, 275, 277, 280, 281, 287, 291, 295,  
 298, 319, 325, 335, 337, 341, 344, 356, 360, 371, 375, 376,  
 388, 390, 401, 407  
 <223> n = A,T,C or G



```

<400> 665
atccaggggt ncccgggtngc tgcngggaaa cctccagcct tgttcttcaa accactcagc 60
tcatgtgttt tgcgctgact agtactgaat aatacaacca ctcttattta atgttagtat 120
tatttatttg acaactcagt gtctaacagc ttgatatgca ggtccttgca tcctacattt 180
cttttaggaag ttaccatttt gtaactttta aaacaggaaa aatatcagtt ggcaaagtga 240
atcttttttt tttttaagct aaaggggggn naacngnaan naaaatnttt ntgangtngg 300
gtctataagc acccttgang ggatntgtta aaagngncat naanggggga ttctcntttt 360
gcaaaaaaat ntaannatca atttatanan ctttattttt nactttnt 408

```

```

<210> 666
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 7, 503, 540, 564, 577, 581, 616, 635
<223> n = A,T,C or G

```

```

<400> 666
ctgaagnaca agggctcaggc aaaaataaga tcacaatcac caatgaccag aatcgccctga 60
cacctgaaga aatcgaaagg atggttaatg atgctgagaa gtttgctgag gaagacaaaa 120
agctcaagga gcgcattgat actagaaatg agttggaaag ctatgcctat tctctaaaga 180
atcagattgg agataaagaa aagctgggag gtaaaccttc ctctgaagat aaggagacca 240
tggaaaaaagc tgtagaagaa aagattgaat ggctggaaag ccaccaagat gctgacattg 300
aagacttcaa agctaagaag aaggaactgg aagaaattgt tcaaccaatt atcagcaaac 360
tctatggaag tgcaggccct cccccaactg gtgaagagga tacagcagaa aaagatgagt 420
tgtagacact gatctgctag tgctgtaata ttgtaaatac tggactcagg aacttttgtt 480
aggaaaaaat tgaaagaact tancctctga atgtcattgg aatcttcacc tcacagtggg 540
gttgaaactg ctatagccta agcnggctgt ttactgnntt ncattagcag gtgctcacca 600
tgtctttggg gtgggngggg ggagaaagaa agaana 635

```

```

<210> 667
<211> 388
<212> DNA
<213> Homo sapiens

```

```

<400> 667
gaagggtgata taaaatgact gtcattcattt ggagtgtgca gtacagttac ttcattgttcc 60
tcagggtttag aacaattttcc cctgtaagtt ctcacacaga taggcagaaa tcataactaa 120
ttttggttta tcaactatggc agccgttgaa gaatttaaga gaacctgcc gtaagatttg 180
gaataagatt ctatattatt gcatccacag aaaagaatgt actgatatac tataaactct 240
aggagaaaaac ttaattgaaa tagtgttatt aagtgttgaa agtaccataa aaatataagg 300
gaaaataagc tttcctagaa ttttctcagt ttctagtttt taaacagtga tgttttttat 360
taacctattt catccattca aagacagg 388

```

```

<210> 668
<211> 498
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 417, 470, 484

```

<223> n = A,T,C or G

<400> 668

```

tgatcttaac aaaattcgta gcagtggaac cttgaaatgc atgtggctag atttatgcta 60
aaatgattct cagtttagcat tttagtaaca cttcaaaggt ttttttttgt ttgttttcta 120
gacttaataa aagcttagga ttaattagaa gaagcaatct agttaaattt cccatttgta 180
ttttattttc ttgaataactt ttttcatagt tattcgttta aaaagattta aaaatcattg 240
cactttggtc agaaaaataa taaatataatc ttatgaatgt ttgattccct tccttgctat 300
ttttattcag tagattttttg tttggcatca tgttgaagca ccgaaagata aatgattttt 360
aaaaggctat agagtcctaaa ggaatgttct tttacaccaa ttcttccttt aaaaatntct 420
gaggaatttg ttttcgcctt actttttttt cttctgtcac aatgctaagn ggtatccgag 480
gtntnttaata tgagattt                                     498

```

<210> 669

<211> 622

<212> DNA

<213> Homo sapiens

<400> 669

```

ccttagccaa agaatgcagt ggagccttcc ccttcaact gcattgtgaa tgaataccaa 60
ttaacagcat aaaaattaat agtcccatat cagatctgga aggggtttct ggggctgtct 120
gatgtcccta tcctgttgta gtgaacacaa tagcagaaaa ttctttctgg gtccatctgc 180
tataaagtct tggtaaaaca gcattactat gaagaggatg aactcaccta ccttcagatg 240
gagggaaaagt gaaaaggact taggccttag tcctccatga cttttotaa gcactaccta 300
cctgtaataa gctgagtgca aaaggatgcc gaagaaaatc tgcacccaga agctgttaga 360
aagcactgca gagaacaggg tatgaagaaa ataaagagtt cttaataaac ccttaagatt 420
ctttgttcaa ggtaaccttg ccaaaagggc agagtagggt gcaaagagtt gcttttaatc 480
tagctctaca ctgcatttga aaataaaatt tgcccatttt gaatatattg tttataatta 540
aatgtgcttt ttacactgca ggtcaatata aaaactgggt agtaaatttc cagcgagcat 600
ttatgttcat ttgctcacag ca                                     622

```

<210> 670

<211> 477

<212> DNA

<213> Homo sapiens

<400> 670

```

ttggggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
cccttgccgc ccgggcaggt gatggatgag gagcaaaaac tttatacgga tgatgaagat 120
gatatctaca aggctaataa cattgcctat gaagatgtgg tcggggggaga agactggaac 180
ccagtagagg agaaaataga gagtcaaacc caggaagagg tgagagacag caaagagaat 240
atagaaaaaa atgaacaaat caacgatgag atgaaaacgt cagggcagct tggcatccag 300
gaagaagatc ttcggaaaga gagtaaagac caactctcag atgatgtctc caaagtaatt 360
gcctatttga aaaggttagt aaatgctgca ggaagtggga gggttacagaa tgggcaaaat 420
ggggaaaggg ccaccaggct ttttgagaaa cctcttgatt ctcagtctat ttatcag 477

```

<210> 671

<211> 127

<212> DNA

<213> Homo sapiens

<400> 671

```

gtgtgtgtgt ctacttgggc gtgtttaacg tgtgcgtttg tgtctgcgtg tgcattgtgc 60
tgtgtgtgcg cgtgtatttc agtttgggtt gccggatccc atatgattgc gtgcctgtgt 120

```

acctgag

127

&lt;210&gt; 672

&lt;211&gt; 400

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 672

```

gggtctgcac agctatgtta acagcctcct tataaccagga gtaggaggaa agacacgact 60
ggaaaagcaa ttcaagctgg tcacacagtg taatgcaaaa tatgtggaat gtttcagtgc 120
tcagaaagag tgtaacaaag aaaagaacag aaactcttca gttgtgccat ctgagcgtgc 180
tcgagtgggt cttgcaccat tgcctggaat gaaaggaaca gattacatta atgcttctta 240
tatcatgggc tattatagga gcaatgaatt tattataact cagcatcctc tgccacatac 300
tacgaaagat ttctggcgaa tgatttgga tcataacgca cagatcattg tcatgctgcc 360
agacaaccag agcttggcag aagatgagtt tgtgtactgg 400

```

&lt;210&gt; 673

&lt;211&gt; 600

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 528, 590, 600

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 673

```

ctggcggttg tcattagtga atgtatgaca gcaggatgtg aggggatgcc caggagtcag 60
tgtagcatt gtcactctgag atcactgcta ttaatatcat ccattaattt attagtgagc 120
ttcactatat gcagactggg agataaggag aaaatctgtc acattctctc tagctaataca 180
gatcagctac caattaatga gattctgaat gaaatatcaa tatgtgtttt tctaatttgg 240
acctaggaca gagctgttgc ttgtcataga gaaaaacaat aatgcttaaa catagcacat 300
tataattaaa gcaggtttct cacatacttt tcattttatc ctttggataa ttttgtgagg 360
aacgcaggac accaacttcc ctttcataga tacaatcccc atgctattga tgaaagtgtt 420
tttgaatgaa gccatacaac aaataactga tcaagtggc attacaccaa aatttcttag 480
taggactcct gcatagaatg tttagataga cgtgaaaagt ttgttcanga ggaccagcaa 540
gagagaaact gggttctttg ggagggtttc ggtgctacat ttataccctn catcagagtn 600

```

&lt;210&gt; 674

&lt;211&gt; 140

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 674

```

ggtgggttgg gtaaatgagt gaggcaggag tccgaggagg ttagttgttg caataaaaat 60
gattaaggat actagtataa gagatcaggt tcgtccttta gtgttggtga tggctatcat 120
ttgttttgag gttagtttga

```

140

&lt;210&gt; 675

&lt;211&gt; 245

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 675

```
gttgggtggg  tgggtgtaa  gagtgaggca  ggagtccgag  gaggttagtt  gtggcaataa  60
aaatgattaa  ggatactagt  ataagagatc  aggttcgtcc  tttagtgttg  tgtatggcta  120
tcatttgttt  tgaggttagt  ttgattagtc  attgttgggt  ggtaattagt  cggttgttga  180
tgagatattt  ggaggtgggg  atcaatagag  ggggaaatag  aatgatcagt  actgcggcgg  240
gtagg                                             245
```

<210> 676

<211> 621

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 13, 21

<223> n = A,T,C or G

<400> 676

```
ctgtccccag  ggnaaatagt  ngaattcaac  taagatctgt  taataagatg  tcagaataac  60
taataatttt  attaggaaaa  aatcatgttt  taaatttcaa  aatgacactt  atttgtcaag  120
taatatgata  ttggaaaatt  tttaaagaaa  ataatacctac  ttataaacta  cttttttata  180
attgttttca  gaaaaaaagt  ttacagtcct  aaggaaaata  ttcaggtcta  tcatatgggt  240
tgacagattt  tttaaaagt  atttttggt  aggtcttctt  tttagaaaaa  attaatctca  300
aggggttttt  gtaccactat  aatctcta  acttactcag  aattactgtg  tatttactta  360
atttcttatt  atgtgcctta  ttatgtgctt  aagatacaat  aggttagagt  ttaatctaaa  420
tatcttgaaa  gctatattgt  gggcttggt  agcattttgt  ttttctttc  tctgttttgg  480
taaggattta  aaatttttt  cattgcaatt  ttaagtgggt  ttcaataagt  aatagttttt  540
atcaaatttt  tgggtgcttg  tgcagagacg  gcgtggggaa  ggggtgaatgg  ttttgggaat  600
aattcagtgc  acacctgggg  g                                             621
```

<210> 677

<211> 210

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 10

<223> n = A,T,C or G

<400> 677

```
tttacata  atattatcag  catttaccat  ctcacttcta  ggaatactag  tatatcgctc  60
acacctcata  tctcctac  tatgcctaga  aggaataata  ctatcactgt  tcattatagc  120
tactctcata  acctcaaca  cccactccct  cttagccaat  attgtgccta  ttgccatact  180
agtctttgcc  gctgcgaag  cagcggtagg                                     210
```

<210> 678

<211> 383

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 86, 119, 120, 139, 140, 148, 162, 167, 175, 184, 222, 227,

263, 270, 282, 327, 379

<223> n = A,T,C or G

<400> 678

```
gtaggagtca ggtagttagg gttaacgagg gtggttaagga tggggggaat tagggaagtc 60
aggggttaggg tgggttatagt agtgtncatg gttatttagga aaatgagtag atatttgann 120
aactgattaa tggttgggnn tgagttnta tatcacagcc anaattntat gatgnaccat 180
gtancgaaca atgctacagg gatgaatatt atggagaagt antctanttt gaagcttagg 240
gagagctggg ttgtttgggt tgnggctcan tgtcagttcc anataataac ttcttgggtct 300
aggcacatga atattgttgt ggggaanaga ctgataataa aggtggatgc gacaatggat 360
tttacataat gggggtatna gtt                                     383
```

<210> 679

<211> 371

<212> DNA

<213> Homo sapiens

<400> 679

```
aaaatgaaaa tattgacaag agtttcagat agaaaaatgaa aaacaagcta agacaagtat 60
tggagaagta tagaagatag aaaaatataa agccaaaaat tggataaaat agcactgaaa 120
aaatgaggaa attattggta accaatttat tttaaaagcc catcaattta atttctggtg 180
gtgcagaagt tagaaggtaa agcttgagaa gatgaggggtg tttacgtaga ccagaaccaa 240
tttagaagaa tacttgaagc tagaagggga agttgggttaa aaatcacatc aaaaagctac 300
taaaaggact ggtgtaattt aaaaaaaact aaggcagaag gcttttggaa gagttagaag 360
aatttgggaag g                                     371
```

<210> 680

<211> 176

<212> DNA

<213> Homo sapiens

<400> 680

```
cctaggattg tgggggcaat gaatgaagcg aacagatttt cgttcatttt ggttctcagg 60
gtttgttata attttttatt tttatgggct ttggtgaggg aggtaagtgg tagtttgtgt 120
ttaatatatt tagttgggtg atgaggaata gtgtaaggag tatgggggta attatg      176
```

<210> 681

<211> 152

<212> DNA

<213> Homo sapiens

<400> 681

```
ctggagatgg atatgagact agtcaagatg tgaatgctaa ttggagagaa atataatttt 60
aggaagatgc acattgatgt ggggttttga tgtgtctgat tttgactact caagctctgt 120
ttacagaaga aaattgaatg gcgaggggtg gg                                     152
```

<210> 682

<211> 141

<212> DNA

<213> Homo sapiens

<400> 682

```
ccagtgcctg cttgccgtgg tttagtgatt ggggtgttaga aataaaaaact caggtctatt 60
tcttaccagt cagtaacaat ttttagagaa tgtacttggg atataatata tggacttcag 120
```

gaactttgtt ggggtggggg g 141

<210> 683

<211> 308

<212> DNA

<213> Homo sapiens

<400> 683

```
ccagcaatgg tacagagtga ggggtgttctg ctaatgactt cagagaagta ttaagaaaa 60
acatagaaaa acgtgtgagg agtttgccag aaatagatgg cttgagcaaa gagacagtgt 120
tgagctcatg gatagccaaa tatgatgcca ttacagagg tgaagaggac ttgtgcaaac 180
agccaaatag aatggcccta agtgcagtgt ctgaacttat tctgagcaag gaacaactct 240
atgaaatgtt tcagcagatt ctgggtatca aaaaactaga acaccagctc ctttataatg 300
catgtcag                                     308
```

<210> 684

<211> 277

<212> DNA

<213> Homo sapiens

<400> 684

```
tggtattagg attaggatgt gtgaagtata gtacggatga gaaggttggg gaacagctaa 60
ataggttgtt gttgatttgg ttaaaaaata gtaggggat gatgctaata attaggctgt 120
gggtggttgt gttgattcaa attatgtgtt ttttgagag tcatgtcagt ggtagtaata 180
taattgttgg gacgattagt ttttagcattg gtagtggtt aggttatgta cgtagtctag 240
gccatatgtg ttggagattg agactagtag ggctagg                                     277
```

<210> 685

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 10

<223> n = A,T,C or G

<400> 685

```
ctgtggcgtn ccctacttct cccaaacctc gcaactccct cccaggacag tcagtgccaa 60
agaaacaggt cgctgaaaac taaaatgtcc acatccctaa ctggcaaccc acatcaaccc 120
caaaagggtt aagaatcatc taagatattt cagatgctct atgaagaaat tcaactttaac 180
acttataact gtaagacttt gcatacatta caacagtgca ttagtgatac aagttgtaaa 240
atacgtttcc attccttttg attttgcata tgatggtttt gcatcagtca ctgcaggtag 300
attgagcaag ctttttgtgt ttgtttttt aaacatgcat tcaactagat atgattcaga 360
atagattaat actccctttt tatcactaca gttagctaaa aaattgccag gcagtccaca 420
aaacagaatt tgctttaaga ccaaccaca gagtgcag                                     457
```

<210> 686

<211> 234

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1

<223> n = A,T,C or G

<400> 686

```
ntggatttat aaaatagttg caatgacaaa agaagtatgt tttgacagta aaaaaaagac 60
attatggaca aaatatgcaa aatgtgcaaa gaaaaaataa atttgcatta gaaaggtggg 120
catttgatct ctgagccctg tgccatgtaa cattgccatg ttctttcact gttgtttgaa 180
tgttgtaccc cagcccttga ctctggactt aaggcaagct atgactggct ttgg          234
```

<210> 687

<211> 315

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 2, 190

<223> n = A,T,C or G

<400> 687

```
nngtctgtga aaaactcttt ggatgattct gccaaaaagg tacttctgga aaaatacaaa 60
tatgtggaga attttggctt aattgatggg cgctcacca tctgtacaat ctctgttttc 120
tttgccatag tggctttgat ttgggattat atgcaccctt ttccagagtc caaacccgtt 180
ttggctttgn gtgtcataat ctattttgtg atgatgggga ttctgaccat ttataacctca 240
tataaggaga agagcatctt tctcgtggcc cacaggaaag atcctacagg aatggatcct 300
gatgatattt ggcag          315
```

<210> 688

<211> 522

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 31, 32, 387

<223> n = A,T,C or G

<400> 688

```
ctgaattaga ggaggagaaa agaagccatt nnggagtact ttaattgttt agatgtgaga 60
ggctgaatgt ttgggttaag atgttagttg tcagaatcat gagaaaagg ttttaagcaag 120
gggcatttct aattctaaaa ataacaacta ctgttattta ttgagcacta tctttttgtt 180
gggtactgtc taaagtactt gattttatttt ttaaaacctt acaaaaaact tacaaggtag 240
gtactgaaag attcagtaat ttgttcaaag tcacacagca aataagcaac agactctgga 300
tttgaaccag gcaatcctag agcctgtact gtttagtaatt atacttttagc acctgtcaag 360
aattcctgtt gagtgtcaag aagcaancac caagttagga tttaaagcaa acatgattga 420
agaatactgt ggtgtggttg acagtagtgc ctaagtctgt tttcagagtg aaaaatgaca 480
aattagattt taagtatggg ttggagataa tadcaggaca gt          522
```

<210> 689

<211> 158

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 11, 13, 15, 34, 51  
 <223> n = A,T,C or G

<400> 689  
 tctcaactta ntntnatacc cacacccacc caanaacagg gtttgtagg nattggttgc 60  
 attaataaat taaagctcca tagggctctt tcgtcttgct gtgtcatgcc cgctcttca 120  
 cgggcaggtc aatttcactg gttaaaagta agagacag 158

<210> 690  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 33, 261  
 <223> n = A,T,C or G

<400> 690  
 tagaactcgt atttttaaac ttctattctc tanccttttc cactacatta tgacacaaga 60  
 ccctgcagaa agtcgtctgg aaaatatcag accatctctt acttggtcca tccaatctta 120  
 catcgaatta tatgcaccct taaaaagta tttggagttt taaaaaactc tattagccca 180  
 aattacctga aataaactcc tggcttggtc ccctaattgt tataaaaaat tgattgaaaa 240  
 tattcatttt aaaaatgaag ntcttgaatt tatttaaatt actgtcttgc agtgagttgg 300

<210> 691  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<400> 691  
 ctgttcagaa agtcatttgg acctggtttt gaaaataaaa caaagttaaa accctgggag 60  
 gagttattgt gcagtgtgga gtactcaggc tttcttataa agaaaaaaaa agttatctgg 120  
 taccaaagtg tgcaacctac agaccctcag gtactgccct gtgacttctc tgtatgacat 180  
 cacaaggctg ccaagtgcct gtttttctag aactaggagt tggtagggtt tggctagtgc 240  
 tgaaaccatg cataggattg gtttactaaa ttaaaacctt attacgtacg tcttccaaaa 300  
 gacag 305

<210> 692  
 <211> 582  
 <212> DNA  
 <213> Homo sapiens

<400> 692  
 caggaaatgg ataaccattt taactgtatt ttttgcagcc cgtaccttct tgggaataca 60  
 attgtctaac tttttatttt tggctcggct gttgtggtgt gcaaaactcc gtacattgct 120  
 attttgccac actgcaacac cttacagatg tggaagatgt gaaatttgct atcaattatg 180  
 actaccctaa ctctcagag gattatattc atcgaattgg aagaactgct cgcagtacca 240  
 aaacaggcac agcatacact ttctttacac ctaataacat aaagcagggtg agcgacctta 300  
 tctctgtgct tcgtgaagct aatcaagcaa ttaatcccaa gttgcttcag ttggctgaag 360  
 acagagggtg aggttaaggat gactgatagg aaatgttgg agttacgagt cacatcgttg 420  
 tctacaaatc catttaaagt gtattggagg gtgagtaaaa ccttgaatgt gaaaacttaa 480



```
<210> 693
<211> 275
<212> DNA
<213> Homo sapiens
```

```
<210> 694
<211> 397
<212> DNA
<213> Homo sapiens
```

```

<400> 694
nggtctgcat ttttattgcg atctgcagat gaactggaaa atctcattttt acaacagaaac 60
tgagacagac gaccaccata ttcactgagg tctaaatttg cagtttccac taatgacatt 120
ttgatttccc aacagagata cttctggtct tactgcacag tcttttaaga gaaatacttc 180
cattatgcc aattgtcctt gatccgtaag tgatgtgtta aggtgcttca aaggaactct 240
gacctctgaa gtacttgagc tactttagta tgtccagcct attgcttttt gttttagtgt 300
gtcaccataa atatcagggg cataaaaggc tatctattct taattcaagg ataaaacaga 360
agaagcttgt ggtataaaac aatagttcaa gatccag 397

```

```
<220>  
<221> misc_feature  
<222> 29, 96, 165, 236, 248, 312, 314, 334, 352, 359, 413, 414,  
472, 525, 547, 583, 609  
<223> n = A,T,C or G
```

```
<400> 695
ctgagcttcc atttgtcagc tagcactgng gtagtcaacc atgcgaatga ggctatttttg 60
gacctcatga ttgtccagtg cctgggctga taccngggga aacgaaattt tgtggctgcc 120
cacaaaatca tggaaaataa tgatttttta gaaaacctcc actgntttgt tgtgcagcaa 180
taaataactg aaacaccaat ccaaaaaact tataaagcta taacaattaa aacagnataa 240
taatagtncc gggatacaaa aatgggtcaa ttgaagagga taaaaagcct caaagcagtc 300
ctcactcata ananccttgt tgtatcacta aaanggcatt aaaattgaga anaaggaana 360
actagtggat taattaataa atgagaagta tccataagga aaaattaaaa ttnnattctt 420
gcttcacatt atgaaaaaat acaaaacaaca gattgattaa agacttaaat gngatcaaca 480
```

```
<210> 696
<211> 300
<212> DNA
<213> Homo sapiens
```

```
<210> 697
<211> 391
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 1, 2, 10, 16, 23, 315, 350  
<223> n = A,T,C or G
```

```
<210> 698
<211> 536
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 508, 523  
<223> n = A, T, C or G
```

<400>	698						
ctgagcatac	agcaataaaaa	ataacataat	ttttatgtgt	acaatatatta	tggaatacgt	60	
tactggaaca	gataaataat	ttagttaata	acatgacaaa	gaacagaaat	tgtatacact	120	
atacagcata	gtaatagaat	aatgaatgat	taaagttatt	aatattaggt	agaaaatgaa	180	
gggtatcttt	gagagcagaa	ctcaaggaag	caagcaat	gccttatgag	gaaagagtta	240	
cctgtggata	aaggagaaac	tgaaaaat	acaagtcaag	actttttgag	caaagacaaa	300	
aatatgacta	tgagtcacca	attcagta	gtgaaaaaaaa	agttgaagag	atatcttgga	360	
agtaaaccat	gttgtggaag	agcagggt	tgataatcat	gggattattc	tgaatgaatt	420	

```

ttaa atgcga taggaatata tgagataatt tcaccagaga ataatatgat catgtttgca 480
tttcaaaggg gtgtatctgg tgcactgngt agaataaata ggntatgtga gcaagt      536

```

```

<210> 699
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1
<223> n = A,T,C or G

```

```

<400> 699
ngtccacctg agggcaggtg acaaggacct gacagagccc atgcagggct ttagatttgg 60
acacacaaga gttgataact tcctcatgaa ctccttgccct gatctaaact catattatgg 120
gtttctgactg tttgagtaat catcttcaag gttaaacctc ttggcagtta cccttttcac 180
aaagtgcaca gtgggaatcg agaatcgata gggttaattt tggagcagtg gcttatacca 240
ttcacctctg tttttttgtg attattttcac agataatgag accttaataa caaataggcg 300
taaaaaaatt ttcacattga aatgatagaa acatttgatg taataaaaact tggttggcctt 360
gatatttttaa ggaattgaaa cctagcaatc ttattggaga gacaagaatt ggtctccag 419

```

```

<210> 700
<211> 336
<212> DNA
<213> Homo sapiens

```

```

<400> 700
ccacttattg tccttaaaaaa tccatactga tacatggaca gtaagtgtgt tttcagatgg 60
agtaccagca ccgaaaatgg gttgaggag gatgggttgt atgtatgttt ctgccacta 120
attttgagca gccatattat gaattaaatc gtcacagcca agtaataacc caagaatggg 180
atgagtttca tgtgtaatat ctcaaattga ataagcatga atgctggagt ggaccattat 240
cctcaaatat tctatgtcac ttctcattta aagactcttg ttatgaacta ttagaaactt 300
taggcaaaat caaaagtatt tgcggcaaaa taaagg      336

```

```

<210> 701
<211> 418
<212> DNA
<213> Homo sapiens

```

```

<400> 701
ccatgtgatg atgttgacaa cccctgaaga gcctcagtc attgttccac gtttaagaac 60
taggaatacc aggactgatg caattctact gggtcactat cgcttgtcac aagacacaga 120
caatcagacc aaagtatttg ctgtaataac taagaaaaaa gaagaaaaac cacttgacta 180
taaatacaga tattttcgtc gtgtccctgt acaagaagca gatcagagtt ttcattgtggg 240
gctacagcta tgttcagtg gtcaccagag gttcaacaaa ctcatctgga tacatcattc 300
ttgtcacatt acttacaat caactggtga gactgcagtc agtgcttttg agattgacaa 360
gatgtacacc cccttgttct tgcgcagagt aaggagctac acagctttct cagaaagg 418

```

```

<210> 702
<211> 261
<212> DNA
<213> Homo sapiens

```

<220>  
 <221> misc\_feature  
 <222> 104, 178, 184, 240  
 <223> n = A,T,C or G

<400> 702  
 gggcctgttg tgggggtggg ggaagcaggg aggggaacag ctaaataagg tgctgttgat 60  
 ttggttaaaa aatagtaggg ggatgatgct aataattagg ctgnggggtg ttgtgttgat 120  
 tcaaattatg tgtttttttg agagtcattg cagtggtaga aatataattg ttgggacnat 180  
 tagnttttagc attggagtag gtttaggtta tgtacgtagt ctaggccata tgtgttggan 240  
 attgagacta gtagggctag g 261

<210> 703  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 40, 104, 178, 184, 220, 246  
 <223> n = A,T,C or G

<400> 703  
 gggcctgttg tgggggtggg ggaagcaggg aggggaacan ctaaataagg tgctgttgat 60  
 ttggttaaaa aatagtaggg ggatgatgct aataattagg ctgnggggtg ttgtgttgat 120  
 tcaaattatg tgtttttttg agagtcattg cagtggtagt aatataattg ttgggacnat 180  
 tagnttttagc attggagtag gtttaggtta tgtacgtagn ctaggccata tgtgttgagg 240  
 attganacta gtagggctag g 261

<210> 704  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 4  
 <223> n = A,T,C or G

<400> 704  
 ngnttgaatt ctattaaaga taaaagagg agctggtacc atttcttctg aaactattac 60  
 aaacaactga aaaggtggaa tttctcccta attcatttta ggaggccagc attatactga 120  
 taccaaaacc tggcagaggt acaataataa aaggaaactt caagtcagta tcaactgatga 180  
 acaccaatgt gaaaatcctc aataaaaatac tggcaaaactg aattcagcag cacatcaaaa 240  
 agctaattca ccacaatcaa gtcagcttca tccctgcgat gcaagtctgg ttcaacatat 300  
 gcaaatcaat aaatacaatt catcagataa acagagctaa agacaaaatt cacatgattt 360  
 tctcaataga tgcagaaaag g 381

<210> 705  
 <211> 477  
 <212> DNA  
 <213> Homo sapiens

<400> 705

```
<210> 706
<211> 266
<212> DNA
<213> Homo sapiens
```

```
<400> 706
ccatggcctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggc aggagtccga 60
ggaggttagt tgtggcaata aaaatgatta aggatactan tataagagat caggntcgtc 120
ctttagtgtt gtgtatggct atcatttgtt ttgaggntag ttgattagt cattgttggg 180
tggtaattag tcggttggtg atgagatatt tggagggtgg gatcaataga gggggaaata 240
gaatgatcag tactgcggcg ggtagg                               266
```

```
<210> 707
<211> 358
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 131  
<223> n = A,T,C or G
```

```
<400> 707
ccatcagaga aatgcaaatac aaaaccacaa tgagatacca tctcacacca gttagaatgg 60
caatcattaa aaagtcagga aacaacaggt gctggagaggy atgtggagaa ataggaacac 120
ttttacaccg ntgggtgggac tgtaaaactag ttcaaccatt gtggaagtca gtgtggcgat 180
tcctcaagga tctagaacta gaaataccat ttgaccagc cggccaatat tcaacattct 240
taaaggaaaag aattttcaac ccagaatttc atatccagcc aaactaagct tcgttagtga 300
aggagaaata aaatacttta cagacaagca aatactgaga gattttgtca ccaccagg 358
```

```
<210> 708
<211> 491
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 12, 479  
<223> n = A,T,C or G
```

&lt;400&gt; 708

```

cctactatgg gngttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcttc tttggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtgccttc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tatagggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgcgg tactatatct attgcgccag gtttcaattt 420
ctatcgcta tactttattt gggtaaattg tttggctaag gttgtctggt agtaaggng 480
gagtgggtt g 491

```

&lt;210&gt; 709

&lt;211&gt; 460

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 1, 197, 216, 231, 313, 389, 411

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 709

```

nggtttttt tgtagagcaa ataatttatg caaaatatgt tacaaaatct gggatgctaa 60
atagttgaca caagtactgt gtttgacatt tagtttcatt tgaattagta atagaatttg 120
ctccttccaa catttacatc ttttttcttt ctgactttat atattttcaa taaaaatttg 180
ctccacagtt ttttaagntca ttcttcttga atccgntttt acatttgctg ngacaaacct 240
gcataaaact agattttata gatataactt ctttgaaga gataaaaatt caaaagtttg 300
acattgcttt canttattct tttcttcatt gttttgattg gccctgtta gattgatgta 360
ttgccaatct acttttgatg gcatgaatnt aaaaagacaa cataaaaaagc ncttctagtg 420
caacagtaat tgaaacttgc agttttccat taaaaaaaaa 460

```

&lt;210&gt; 710

&lt;211&gt; 542

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 275, 507

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 710

```

ctgttacagt gacaagagat aaaaagatag acctgcagaa aaaacaaact caaagaaatg 60
tgttcagatg taatgtaatt ggagtgaata actgtgggaa aagtggaggt cttcaggctc 120
ttcttgaag aaacttaatg aggcagaaga aaattcgtga agatcataga tctactatg 180
cgattaacac tgtttatgta tatggacaag agaaataact gttgttgcat gatatactag 240
aatcggaatt tctaactgaa gctgaaatca tttgngatgt tgtatgcctg gtatataatg 300
tcagcaatcc caaatccttt gaatactgtg ccaggatttt taagcaacac tttatggaca 360
gcagaatacc ttgcttaatc gtagctgcaa agtcagacct gcatgaagtt aaacaagaat 420
acagtatttc acctactgat ttctgcagga aacacaaaat gcctccacca caagccttca 480
cttgcaatac tgctgatgcc cccagtnagg atatctttgt taaattgaca acaatggacc 540
tg 542

```

&lt;210&gt; 711

<211> 394  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 184, 299  
 <223> n = A,T,C or G

<400> 711  
 caaacccact ccaccttact accagacaac cttagccaaa ccatttacc ccataaaagta 60  
 taggcgatag aaattgaaac ctggcgcaat agatatagta ccgcaaggga aagatgaaaa 120  
 attataacca agcataatat agcaaggact aacccttata ccttctgcat aatgaattaa 180  
 ctanaaaataa ctttgcaagg agagccaaag ctaagacccc cgaaaccaga cgagctacct 240  
 aagaacagct aaaagagcac acccgtctat gtagcaaaat agtgggaaga tttataggna 300  
 gaggcgacaa acctaccgag cctgggtgata gctgggtgtc caagatagaa tcttagttca 360  
 actttaaatt tgcccacaga accctctaaa tccc 394

<210> 712  
 <211> 552  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 11, 133, 329, 345, 421, 518  
 <223> n = A,T,C or G

<400> 712  
 gaggtctgta naatgccagg ctcaaatttg tctttataat ttaataccag aaatctttcc 60  
 cttgtgatgt ttctttcttt ctggattgcc tctatagcag gggatagcgg gggaggataa 120  
 ggcacatctt tgntgtactg agaaatttga ccacgcagga tgatgtggct gttctcattc 180  
 atctgcacag agaaaaataa tgataaaata tccctttcct atgtttactg attttatggc 240  
 tgccataatg gaagcctcct tgactattta atcctttctg tcaactagggt tcgatttttt 300  
 ttttaattta cctgttagag gtatttaana attttaacta gctanaaata attacattcc 360  
 aaaggaacac caaggcaaat aaatgggttg taatcagcaa aagaattaca ttagttgttg 420  
 ntgctactta ttagggggag aactgttttt ttttaatttt aaacaattta ataattctca 480  
 ctgcaaataa ttttagatgc agcaaaggac tatgtagncg ttaataacct atgttgatat 540  
 tttcataata tt 552

<210> 713  
 <211> 518  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 133, 148, 188, 209, 246, 248, 263, 306, 316, 339, 371, 430, 469  
 <223> n = A,T,C or G

<400> 713  
 ccaaaaactg gaagcagctc actaaacaaa cagtggcata cccatagaac tgcatacttc 60  
 tcagcagtat gaaagaatga gctacttata taagcatcat tgataaacct caaaaaaaaa 120

```

atgccacatg aanaaaccca aagggganaa acataaaaaac tttatatgtc agtcatataa 180
aattctanaa aatgcaaact aatccatcnt aaaggaaagt aaatcaacag ttgtctggag 240
gaccananag agcaggagga ganagattat taaaggggtt aaagtaaatt tgggagtgcc 300
cttcnctttt taaatnctat gaaaatgaaa gtaaaggcnc atgcatgttg taaactaata 360
gtaacaaaca naatgggttg gagtgggggtg ttgtctgggg acatcattac aaaatgtaag 420
ccagtttatn taaattttga aaagaccgtg gactctgatc tgactgatna atgttggaag 480
agataagtgt gctgcaaata ggggaattaa taaaacag 518

```

<210> 714

<211> 281

<212> DNA

<213> Homo sapiens

<400> 714

```

ccaattgatt tgatggtaag ggaggggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagtcca gacggtttct 120
atttcttgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240
ataagctctt ctatgatagg ggaagtagcg tctttagtag c 281

```

<210> 715

<211> 443

<212> DNA

<213> Homo sapiens

<400> 715

```

cttgaaatca gcaacacact tacaaatgag aaaatgaaaa tagaagagta tataaagaaa 60
gggaaagagg attatgaaga gagtcatcag agagctgtgg ctgcagaggt atccgtactt 120
gaaaactgga aggagagtga agtggtataag ctacagatca tggagtcaca agcagaagcc 180
tttctgaaga agctggggct gattagccgt gatcctgcag catatcccga catggagtct 240
gatatacggt catgggaatt gtttctttct aatgttacaa aagaaattga gaaagcaaag 300
tctcagtttg aagaacaaat taaggcaatt aaaaatgggt cccggctcag tgaactttct 360
aaagtgcaga tttctgagct ttcatttctt gctgttaaca cggttcatcc cgagttactc 420
cctgagtctt caggccacga tgg 443

```

<210> 716

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 6, 516, 532, 553, 602, 617, 620

<223> n = A,T,C or G

<400> 716

```

ccaaanaaaa tgaagtacag agtctgcata gtaagcttac agataccttg gtatcaaaaac 60
aacagttgga gcaaagacta atgcagttta tggaaatcaga gcagaaaagg gtgaacaaaag 120
aagagtctct acaaatgcag gttcaggata ttttgagca gaatgaggct ttgaaagctc 180
aaattcagca gttccattcc cagatagcag cccagacctc cgcttcagtt ctagcagaag 240
aattacataa agtgattgca gaaaaggata agcagataaa acagactgaa gattcttttag 300
caagtgaacg tgatcgttta acaagtaaag aagaggaact taaggatata cagaatatga 360
atttcttatt aaaagctgaa gtgcagaaat tacaggccct ggcaaatagag caggctgctg 420
ctgcacatga attggagaag atgcaacaaa gtgtttatgt taaagatgat aaaataagat 480

```



```

tgctggaaga gcaactacaa catgaaattht caaacnaaat ggaagaattht angattctaa 540
atgaccaaaa canagcatta aaatcagaag ttcagaagct gcagactctt gtttctgcac 600
angcctaata aggatgntgn ggaacaaatg gaaaaattg 639

```

```

<210> 717
<211> 473
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 2, 102, 148, 157, 187, 290
<223> n = A,T,C or G

```

```

<400> 717
nntgaggcta ctgctgttht attacaacat tacctcttgt ttttataaag tgtaccaaga 60
tttaaatga taactttatt ttacttgaaa aaaaaaagt tnttttatca ccagtgttac 120
agttgtcttc tgthtcttht tgthtthgntt taththgntt cctthttagc caaagagtga 180
acagaanatt ttcttatttht ggtggctatt cattttactt ttaaaagtga ttggtggatt 240
ttagactaat tatgggggaa tttgccacca aaataaaaaa tatgtaaagn gtagtgatta 300
cagagtgggt aaaatgtggg ttagtactta tttattccat taattgatta tttgactgtt 360
tataaagaaa gttgcttht ttctthtaaac atcttcaaaa gatgatcctt tcttgtcaca 420
ttatagccaa aagaagcaga gaacttcact gtctgcattt ggttccttgt tgg 473

```

```

<210> 718
<211> 207
<212> DNA
<213> Homo sapiens

```

```

<400> 718
ggtaaatgct agtataatat ttaccatctc acttctagga atactagtat atcgctcaca 60
cctcatatcc tccctactat gcctagaagg aataatacta tcaactgttca ttatagctac 120
tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180
ctttgccgcc tgcgaagcag cggtagg 207

```

```

<210> 719
<211> 255
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 214
<223> n = A,T,C or G

```

```

<400> 719
cctatattac ggatcatttc tctactcaga aacctgaaac atcggcatta tctctctgct 60
tgcaactata gcaacagcct tcataggcta tgtctctccg tgaggccaaa tatcattctg 120
agggggccaca gtaattacaa acttactatc cgccatccca tacattggga cagacctagt 180
tcaatgaatc tgaggaggct actcagtaga cagnccacc ctcacacgat tctttacctt 240
tcaacttcac ttgcc 255

```

```

<210> 720
<211> 455

```

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 154, 346, 349, 366, 444  
<223> n = A,T,C or G

<400> 720  
ccaatgtcga aacctacaag atttccttaa aatctccta agaggcatta cttgctttca 60  
attgacaaat gatgccctct gactagtaga tttctatgat ccttttttgt cattttatga 120  
atatcattga ttttataatt ggtgctatgt gaanaaaaaa atgtacattt attcatagat 180  
agataagtat caggtctgac ccagtgga aacaaagcca aacaaaactg aaccacaaaa 240  
aaaaaggctg gtgttcacca aaaccaaact tgttcattta gataatttga aaaagctcca 300  
tagaaaaggc gtgcagtact aagggaacaa tccatgtgat taatgnttnc attatgttca 360  
tgtaanaagc cccttatttt tagccataat tttgcatact gaaaatccaa taatcagaaa 420  
agtaattttg ccacattatt tatnaaaaat gttcc 455

<210> 721  
<211> 530  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 134, 390  
<223> n = A,T,C or G

<400> 721  
ccagtgcctg ctgccgtggt ttagtgattg ggtgtagaa ataaaaactc aggtctatgt 60  
cttaccagtc agtaacaatt tttagagaat gtacttggtata tataatatat ggacttcagg 120  
aactttattg gggngggggg ttaattttgc cttaccctgt tcaactttcag atgattagga 180  
ttttgcactt tagaatgaga aacttgtgac gttagtggtt tcttactagc ttttaatttgt 240  
atgtagcaat gaattgtgaa tcttagtgca gtgggttttt ttaaaaaact caaaaagctg 300  
ggaattaagt ggttttcagta ataattgctat accgaggtgc ttgcattgta tttcataatt 360  
ttgtttacaaa ccaaaattat ttttaattgan aacgggtcttg gggttcagagg tgtgatgcca 420  
gaatgtatgt tcgtactgtt aggcccttgg aacagatacc ggtgctttct tgaaagatga 480  
aagaaatgca atgggtgctc ttcattgcaag gttgcaaacc taccaagaat 530

<210> 722  
<211> 242  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 29, 35, 55, 192  
<223> n = A,T,C or G

<400> 722  
ccaagggtca tgatggcagg agtaatcana ggtgntcttg tgttgtgata agggngggaga 60  
ggttaaagga gccacttatt agtaatgttg atagtagaat gatggctagg gtgacttcat 120  
atgagattgt ttgggtctact gctcgcagtg cgccgatcag ggcgtagttt gagttttagt 180  
ctcatcctga tnagaggatt gagtaaaccg ctaggctaga ggtggctaga ataaatagga 240

gg

242

<210> 723  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 191, 266, 460  
 <223> n = A,T,C or G

<400> 723  
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
 gccgttcttc tttggactaa cagttaaatt tacaaggga ttttagagggt tctgtgggca 120  
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180  
 ttgtgccttc nacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240  
 agctgttctt aggtagctcg tctggnttcg ggggtcttag ctttggctct ccttgcaaag 300  
 ttattttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360  
 tggttataat ttttcatctt tcccttgagg tactatatct attgcgccag gtttcaattt 420  
 ctatcgcta tactttattt gggtaaatgg tttggctaan gttgtctggt ag 472

<210> 724  
 <211> 292  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 26, 73, 177, 215, 256, 274, 276  
 <223> n = A,T,C or G

<400> 724  
 nccaccactg cagccctaca tacagntgaa aaaaaattcc attctgttaa catttgtttt 60  
 ataagttttc acncaatata caaaaaaccc ctctgcactt cttgttaaaga acaaaaaaga 120  
 tacacaacag ttaagcgtaa agatcacagg caatagcatt caaacatgga tgtgggnaga 180  
 gaaaggagta cctggcatga gtacctgctt agttnngactg aatccttgat ttttaatttg 240  
 gcttttcatg ggccgntcac aacaccaacg ctgngngagg tatggtagtc ag 292

<210> 725  
 <211> 122  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 35, 61, 86, 88, 91, 114  
 <223> n = A,T,C or G

<400> 725  
 atagaaaggg catacccaaa atgttactga aaatntaata caaattccaa gattcaccaa 60  
 ngaagtaaca aaaacctggc ctgcangngg ncccctatcc cgtgggtcca tggntgatgt 120  
 gg 122

<210> 726  
 <211> 477  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 266  
 <223> n = A,T,C or G

<400> 726  
 ctgaaccctc gtggagccat tcatacaggt ccctaattaa ggaacaagtg attatgctac 60  
 ctttgcacgg ttagggtagc gcggccgtta aacatgtgtc actgggcagg cgggtgcctct 120  
 aatactggtg atgctagagg tgatgttttt ggtaaacagg cggggtaaga tttgccgagt 180  
 tccttttact ttttttaacc tttccttatg agcatgcctg tgttgggttg acagtgaggg 240  
 taataatgac ttgttggtga ttgtanatat tgggctgtta attgtcagtt cagtgtttta 300  
 atctgacgca ggcttatgcg gaggagaatg ttttcattgt acttatacta acattagttc 360  
 ttctataggg tgatagattg gtccaattgg gtgtgaggag ttcagttata tgtttgggat 420  
 tttttaggta gtgggtgttg agcttgaacg ctttcttaat tggcggctgc ttttagg 477

<210> 727  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<400> 727  
 cctgtctttg aatggatgaa ataggttaat aaaaaacatc actgttttaa aactagaaca 60  
 ctgaaaaatt ctaggaaagc ttattttccc ttatatattt atgggtactt caacacttaa 120  
 taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcttttct 180  
 gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt 240  
 caacggctgc catagtgatt aaccaaatt agttatgatt tctgcctatc tgtgtgagaa 300  
 cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360  
 atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata gtctgg 416

<210> 728  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 411  
 <223> n = A,T,C or G

<400> 728  
 cctgtctttg aatggatgaa ataggttaat aaaaaacatc actgttttaa aactagaaca 60  
 ctgaaaaatt ctaggaaagc ttattttccc ttatatattt atgggtactt caacacttaa 120  
 taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcttttct 180  
 gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt 240  
 caacggctgc catagtgatt aaccaaatt agttatgatt tctgcctatc tgtgtgagaa 300  
 cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360  
 atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata ntctgg 416

<210> 729

<211> 564  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 399, 439, 463  
 <223> n = A,T,C or G

<400> 729  
 ctgtgagtag aggagtcttc ccgagagtag cagttgttga tccaaatgat tgaagccttc 60  
 aggtaaggga ataactgctg caggaattct ttcttgaaga atttaagctg tttggtaaga 120  
 attctgtaac tacatacctt tgaaacacta ttcacattca aataaacgct tgttttctag 180  
 ccaggcacag gctcaattag tttttcaaac tctagccaag gcagtatttc atttgggaaa 240  
 tcatgcaaca gaactgctca attcttaact tctcctgctg ttaacattta cacttagact 300  
 gccagcaaca gttaacttaa attttgggtct caagggaaca aaaaaaatt gcattcagaa 360  
 tttaatatag ttttttaaaa ctaatttttag cctgtaagnc attatgagca atagtaactt 420  
 ttatacctcc tcatcttgnc tgataatata ttctatatgc tgncaatctg attatatagt 480  
 ctatatgcta gaagttgctg attttcatc tgcacacaaa aaaaactgtc cttttttttt 540  
 tatgggggaa aaagggaatt taaa 564

<210> 730  
 <211> 310  
 <212> DNA  
 <213> Homo sapiens

<400> 730  
 ccatttttat ttcttcttca gagaagtgtt tatttaggtc tgttgcccat tttacaatta 60  
 ggccatatgt tttcttgctg ttgagttgta tgtgtgtttg tataaaatttt gcatattaac 120  
 cccttatcac acgtatgttt tttaaaataa attttgctta ttaatctttt atcagatgta 180  
 tggtttccaa atatattctt ccgattccatg gattctcttt tttggttatga ttggttcttt 240  
 gctcttcgga agctttttgt tttgttttgt tatttgtttt accttgatat agtcccatTT 300  
 attgtttttg 310

<210> 731  
 <211> 467  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 260, 276, 334, 388, 392, 407  
 <223> n = A,T,C or G

<400> 731  
 ngacaacctt agccaaacca tttacccaaa taaagtatag gcgatagaaa ttgaaacctg 60  
 gcgcaataga tatagtaccg caagggaaag atgaaaaatt ataaccaagc ataataaagc 120  
 aaggactaac ccctatacct tctgcataat gaatttaacta gaaataactt tgcaaggaga 180  
 gccaaagcta agacccccga aaccagacga gctacctaaag aacagctaaa agagcacacc 240  
 cgtctatgta gcaaaatagn gggaagattt ataggnagag gcgacaaacc taccgagcct 300  
 ggtgatagct ggttggtccaa gatagaatct tagntcaact ttaaattttgc ccacagaacc 360  
 ctctaaatcc ccttgtaaatt ttaactgnta gnccaaagag gaacagntct ttggacacta 420  
 ggaaaaaacc ttgtagagag agtaaaaaat ttaacaccca tagtagg 467

<210> 732  
 <211> 492  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 266, 343, 364, 483  
 <223> n = A,T,C or G

<400> 732  
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
 gctgttcctc ttgggactaa cagctaaatt tacaaggga ttagagggt tctgtgggca 120  
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180  
 ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240  
 agctgttctt aggtagctcg tctggnttcg ggggtcttag ctttggctct ccttgcaaag 300  
 ttatttctag ttaattcatt atgcagaagg tatagggtt agnccttgct atattatgct 360  
 tggntataat ttttcatctt tcccttgccg tactatatct attgcgccag gtttcaattt 420  
 ctatcgcta tactttattt gggtaaattg tttggctaag gttgtctggt agtgaggcgg 480  
 agngggtttg gg 492

<210> 733  
 <211> 562  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 169, 400, 430, 460, 497, 513, 523, 555  
 <223> n = A,T,C or G

<400> 733  
 ntgaaatggc aatagcattc actgtcgtat tttgcagtgc tcaggaagtg ggacgttaac 60  
 tttgaagggtg cttgtttgta ttagctctgc taggtttacc tctacaacgt agatttcagc 120  
 agctatgctg actgacacta cattctagtt cttaagattt tttttccana tcccccttc 180  
 cccagctaga catacgtagc atactttcat cttattcagt ctttctgtaa cctgctgctg 240  
 ctttttagtcc tctcacctc agatcggaat caatggagtg ggcccagagg atacatttta 300  
 attccagtaa tggtaggtag atttgcctg ctttctaaaa catctcctca tttcatattt 360  
 ccactccata ttgattccat aagggaaaat taatgggtgn ttctccttt agggaggcaa 420  
 tgcaaagagn gtggacatct tctaattctg aggaacagtn gttgatttcc cttgaaggag 480  
 cttacatatt gactgtnttt cacaataacc tgnttgcccc agntcaatcc ctcatattta 540  
 tacttaatgt tggtnctggg ct 562

<210> 734  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1  
 <223> n = A,T,C or G

<400> 734

```

nggtccagaa caagagaaat aactgcagaa aacacatatg gttggaaacc atgcgcttgt 60
gactttttct gtagcctatg ggagtgagaa gagtgggtaa cccaagatgt ttttaagact 120
gactggacta agaatggcgt acttatagcc aactacttcc cccctaagt gactgaaggg 180
attcataatg atcacaatta gcattacggt taagtatttt aggggtgacg tctaagctca 240
cacttgaaag gtatttatct aatgg                                     265

```

```

<210> 735
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<400> 735
atttaatacg tgctcactgc tcggcacgcg ctgaagctac agttaacaat cagtgagcac 60
atattaaatg ataaaaataat gctgatggta aacattcata acagcagagt aagatttttg 120
cagttttgtg tctcggtaac ataactgtaa ctttagatga acacctatcc cttcatgac 180
tgacttttaga ggcaaggagt ttgtaacatc taatgg                                     216

```

```

<210> 736
<211> 285
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 177
<223> n = A,T,C or G

```

```

<400> 736
ctgaaaggca acntggagac tagttagtct agtccccctca tattataaat tggatatgctg 60
aggccaggca gtaaatgtct atggagctct ccaatttaag gccagtttga ctccaaggg 120
agggttctta gtaaaatttt gtgattaaat tggaaactct aatttatttt tctatgngtt 180
tttggtacct aatcctcata agcaagccat atttcaaggc tgatcaatga aaacaccaa 240
taccaaagct tcctttccct tccaaattta ctgacccttt gtcag                                     285

```

```

<210> 737
<211> 509
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 4, 13, 303, 347, 419, 446, 473, 483, 489, 503
<223> n = A,T,C or G

```

```

<400> 737
agangaagaa gangaagatt aagggaagaa tacatcggtc aagaagagct caacaaaaca 60
aagcccactc ggaccagaaa tcccgcagat attactaatg aggagtacgg agaattctat 120
aagagcttga ccaatgactg ggaagatcac ttggcagtga agcatttttc agttgaagga 180
cagttggaat tcagagccct tctatttgtc ccacgacgtg ctccctttga tctgtttgaa 240
aacagaaaga aaaagaacaa catcaaattg tatgtacgca gagttttcat catggataac 300
tgngaggagc taatccctga atatctgaac ttcattagag ggggtgnaga ctcgaggat 360
ctccctctaa acatatcccg tgagatgttg caacaaagca aaattttgaa agttatcang 420
aagaatttgg gtcaaaaaat gcttanaact ctttactgaa ctggcggaag atnaagagaa 480
ctncaagana ttctatgagc agntctctt                                     509

```

<210> 738  
 <211> 97  
 <212> DNA  
 <213> Homo sapiens

<400> 738  
 cagtgaattg aatacgactc ctatagggcg aattggggccc tctagatgca tgctcgagcg 60  
 gccgccagtg tgatggatat ctgcagaatt cgccctt 97

<210> 739  
 <211> 209  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4  
 <223> n = A,T,C or G

<400> 739  
 ccgncagtgt gatggatata tgcagaattc gcccttagcg gcccgcccg gcagggtcct 60  
 tatatatagt agcttagttt gaaaaaatgt gaaggacttt cgtaacggaa gtaattcaag 120  
 atcaagagta attaccaact taatgttttt gcattggact ttgagttaag attatTTTTT 180  
 aaatcctgag gactagcatt aattgacgg 209

<210> 740  
 <211> 164  
 <212> DNA  
 <213> Homo sapiens

<400> 740  
 ccaagctaatt gggtgacact gtgaatgcaa ctctaattgca gcctggcgta aatgggtccta 60  
 tgggcactaa ctttcaagtt aacacaaaca gaggaggtgg tgtgtgggaa tctggtgcag 120  
 caaactccca gagtacatca tggggaagtg gaaatggcgc aaat 164

<210> 741  
 <211> 514  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 82, 438, 485, 497  
 <223> n = A,T,C or G

<400> 741  
 ccagtcagaa ttgagatgtg ctgtgagtgc aaaatacact caaatctaag acttagtatg 60  
 gaagaaaaag aagataaggt gnttcattaa taatctttta tattgattac atgttgaaat 120  
 gatattttta atatactggg ttacataaac tgttattaag attaatTTTt cttgtttctt 180  
 ttttaatatg gctactagaa aattaaaaat tatgtttgtg ttacacattat atttctgttg 240  
 aacaatgtgg acatagataa tctacagtca ttacattagc cttagaattt agcatcatac 300  
 ttttaagcac tctgggttac taacttgaac tcccagaaac ccataagcac actctgcata 360  
 taaattattg caaaattcat tcttatctct ctgaaagata tgcattttta gggtaaaaaa 420



```

aattcacaaa atattganto cttacaaaat gtcaattagt atatggagag agctaaagga 480
cttcntgtag actggtncat tggggaaaaa caga 514

```

```

<210> 742
<211> 439
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 28, 123, 144, 347, 367
<223> n = A,T,C or G

```

```

<400> 742
gcaggtccta tgcatagtta ataagggnta taatctactc aacatggaaa atgggagcct 60
atttgcaaac acacgagtaa ttaaagtacc aattctctct tagtttcttt ttttatagtt 120
ggntttatttt gcaattataa atgntaaaca tccctagaga tgaaagttaa aatggctgat 180
cacagatcag tagcaaaaata caaattgaca attcaaaatt ataaataaaa ctctgttgag 240
gatgtttaac tttgagcctc caaatttaag agctaagctt ggaagaaaca aatttatagg 300
ttatatttcc ctcttaaatt aaaaaacaaa ctctctctgg cagtagnttg tgaattcctt 360
tcattgnaat gataccatga ttacaggatc aaaaatgctt aacttacttg ccattctgct 420
cacatcatca cagttgttt 439

```

```

<210> 743
<211> 275
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 3
<223> n = A,T,C or G

```

```

<400> 743
cangacgcta cttcccctat catagaagag cttatcacct ttcatgatca cgcctccta 60
gtcattttcc ttatctgctc cctagtctct tatgcccttt tcctaacact cacaacaaaa 120
ctaactaata ctaacatctc agacgctcag gaaatagaaa ccgtctgaac tatcctgccc 180
gccatcatcc tagtctctcat cgcctcctca tccctacgca tcctttacat aacagacgag 240
gtcaacgata cctcccttac catcaaatca attgg 275

```

```

<210> 744
<211> 295
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5
<223> n = A,T,C or G

```

```

<400> 744
ctgtncctttt aaaaaatctg gatgtttttt atttagtgat tgttcgacaa ttagctgctt 60
caaaacataa tgtgcattgc ttatgaatgc cttcatatac taatacagat actctgataa 120
tattacactc taataaggat aatgctgaat tttgaaagga cacaaaacat ctaatgccaa 180

```

tatatacatg attagccaac atcttttgcta tcaagaccac tcgttttttaa ataaagatgc 240  
aagtgtcagt tgtagattat tgggatgaag cttaaaccac agaatgcagc agcag 295

<210> 745  
<211> 477  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 434  
<223> n = A,T,C or G

<400> 745  
cgcggtactg tacatattgc tagcaggaga caactggaaa tactaaacaa atactggaat 60  
tcacattaca gacagacgaa accaacaatg atgccacaca taacttcctt tgtagtttca 120  
cagagagcct atttgtggtt gctcagggtg ggccatacat tgcttgacaga aatggcctga 180  
tcatagctct atgaaacaat gaattcggaa tgaaatctta ccatgacacc tctctgtagg 240  
aaagaaatgt tgcttcacgt gtgctaagtt gagataataa tatttcacat atttatatac 300  
agagaatcac tctcaaattt aacccaagat aagcaatagg atttgggggt gacttgtaca 360  
catttctaac aacacttttc ttttttctag aggtcactct caaacactga tatatcacta 420  
tagtttgagt gtanggattc agtaatcaaa gggtgttatt gcaaaagagc caggcag 477

<210> 746  
<211> 524  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 393  
<223> n = A,T,C or G

<400> 746  
ctgtgaaatt ggggttggag agccaaaata ctttacaact tcagaccgga gaaaaggcca 60  
gaggtgtgaa gttagactct atgatgaaac agagtcgtct tttgcatga catgttggga 120  
taatgaatcc attctacttg cacagagctg gatgccacga gaaacagtaa tatttgcttc 180  
agatgtaaga ataaattttg acaaatttcg gaactgcatg acagcaactg taatctcaaa 240  
aaccattatt acaactaatc cagatatacc agaagctaac attctgctga attttatacg 300  
agaaaataaa gaaacaaatg ttctggatga tgaaattgac agttatttca aagaatccat 360  
aaattttaagt acaatagttg atgtctacac agntgaacaa ttaaagggaa aagctttgaa 420  
gaatgaagga aaagctgacg cttcctatgg catcctttat gcctacattt ccacactcaa 480  
cattgatgat gaaactcaaa agtagttcga aatagatggt ccag 524

<210> 747  
<211> 456  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 411  
<223> n = A,T,C or G

&lt;400&gt; 747

```

cctcagttct tgattgtggt tgacggggcg tcaccatgaa ggagcccatt tagtataaag 60
cttccaacct tttctcttaa tcgtttcttt aatcttttaa accatcttca agtgcatagg 120
ggagtttccg atgccagagg atgaaagcaa gtgctttctc caccctctcc tcccagagtg 180
aaaacaaatc cttttgctga tacttgtttc aaaagcatcc attgtaaagc ttctcagtga 240
cacaaaatac tgagaggtaa ctttttatca atcaaaccac atacccaat ttaacacctt 300
tcagtgtctc gaattcaact gacagactaa aggggtgtttc ctgtaacagt ctgaaatatt 360
aagtgttttt tttgttttgt ttttaaactc tatttcagaa aacttcctct nggggtagga 420
aagtacacat gaagcagcaa agtaacgaag aaaaac 456

```

&lt;210&gt; 748

&lt;211&gt; 474

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 4, 28, 58, 207, 210, 217, 423

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 748

```

ccanaccagg gaaccaaagt cagacagnga agttctctgc ttcttttggc tataatgnga 60
caagaaaggg atcatctttt gaagatgttt aaagaaataa agcaactttc ttataaaaca 120
gtcaaataat caattaatgg aataaataag tactaaccoca cattttaacc actctgtaat 180
cactacactt tacatatttt ttatttnggn ggcaaaantcc cccataatta gtctaaaatc 240
caccaatcac ttttaaaagt aaaatgaata gccacaaaaa taagaaaatc ttctgttcac 300
tctttggcta aaaaggaaaa caaataaaac aaaacaaaaa gaaacagaag acaactgtaa 360
cactggtgat aaaagaaact ttttttttac aagtaaaaata aagttatcaa tttaaatctt 420
ggncacttta taaaaacaag aggtaatgtt gtaataaaac agcagtagcc tcag 474

```

&lt;210&gt; 749

&lt;211&gt; 355

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 8, 9, 12, 22, 242, 311, 332, 348

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 749

```

cctgggttnna gnggctgact gnaacctcca ctctctgttc tcaggcaatc ctctgcctc 60
agcctcctta gtagctggga ctacaggagt gtgcaaccat gcccaactaa tttttgtatt 120
tttaatatag acagggtttc accatgttga tcaggtttgt ctccaactcc tgacctcagg 180
tgateccact gtcccagcct cccaaagtgc tgggattaca ggcatgagcc accacgcccg 240
gnccaggata aagtaaaaat ttgtaagcac acaaggccct ttgcaacctg gctcctggtt 300
actactttta nctctctgcc ctcccaaagt tinctactgt ttttctanac atacc 355

```

&lt;210&gt; 750

&lt;211&gt; 493

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc\_feature  
 <222> 350, 364, 454  
 <223> n = A,T,C or G

<400> 750  
 ccatgctggt ctcgaactcc tgaactcagg tgatccaccc gcctcagtct cccaatagat 60  
 tacatatatt attaatgaat tgcttccttt aacaccctat tcattgaatt ttccagtaaa 120  
 ccacaattac taattactcc tgaaatcaga aaagagggtta aaaagatttt ataacagtat 180  
 cctatgaaat ctactacttt caagtaatag tagttgaatt accaaaaccc gtcactcaag 240  
 ccaatgacta caattaagat atgagtaaca tttcctagat aaataaagtc aattaattat 300  
 atttgcactc gggaaataga gaaagtacat ataagccatg attttgaagn caaaagagag 360  
 agantatttg ccaaggagggt gtgagttata gtatgtaatt ataacatata gaagcttttt 420  
 gtatgctggt aactaatttt aatttcctac attnttatgg agatttctgc tattcttgtc 480  
 ctattttcca cct 493

<210> 751  
 <211> 364  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 11, 34, 211, 360, 362  
 <223> n = A,T,C or G

<400> 751  
 cgaggctctgg naaggtcacc aagtctgccc aganagctca gaaggctaaa tgaatattat 60  
 ccctaatacc tgccacccca ctcttaatca gtggtggaag aacggtctca gaactgtttg 120  
 tttcaattgg ccatttaagt ttagtagtaa aagactggtt aatgataaca atgcatcgta 180  
 aaaccttcag aaggaaagga gaatgttttg nggaccactt tggttttctt ttttgcggtg 240  
 ggcagtttta agttattagt ttttaaaatc agtacttttt aatggaaaca acttgaccaa 300  
 aaatttgtca cagaattttg agaccattta aaaaagttaa atgagataaa aaaaaaaaaa 360  
 cntg 364

<210> 752  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 17, 368, 395, 400, 425  
 <223> n = A,T,C or G

<400> 752  
 ctggattatg ggttgggnatt ggtcatatgt tagactccat acaggcatag ctatgatgca 60  
 gtgaatccct tagaagttac aattctcaaa ttacatactt cctcagatgt aacattagaa 120  
 ctcaatattt ctaacaataa cataccagaa aaggctggac tggcactcat ctgctgacta 180  
 acttgtagcc tcagtaatat gacatacttg cctttaacaa attatctcaa attaactaac 240  
 agaccttcag aaaatggaga ttctttttga tggggacata atcaaattta agtctgagaa 300  
 atatgcttaa cagttggaac tcaaattaaa tgtactgatt ttaaagttaa gacattaaca 360  
 agtgatanat tagcctcaaa aaaagacaat ttggnaagggt ttaggtcttt taatttggtg 420  
 cttgntcaca acttgactgg tgcttctttc cttgctgctt cacatcaagc atggggccaa 480  
 ttctattttc agtaaagt 498

<210> 753  
 <211> 467  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 15, 77, 314, 317, 335, 419  
 <223> n = A,T,C or G

<400> 753  
 nacaacctta gccanaacca tttacccaaa taaagggata ggcgatagaa attgaaacct 60  
 ggcgcaatag atatagnacc gcaagggaaa gatgaaaaat tataaccaag cataatatag 120  
 caaggactaa cccctatacc ttctgcataa tgaattaact agaaataact ttgcaaggag 180  
 agccaaagct aagacccccg aaaccagacg agctatctaa gaacagctaa aagagcacac 240  
 ccgtctatgt agcaaaatag tgggaagatt tataggtaga ggcgacaaac ctaccgagcc 300  
 tgggtgatagc tggntgncca agatagaatc ttagntcaac tttaaatttg cccacagaac 360  
 cctctaaatc cccttgtaaa tttaaactgtt agtccaaaga ggaacagctc ttggacacna 420  
 ggaaaaaacc ttgcagagag agtaaaaaat ttaacaccca tagtagg 467

<210> 754  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 17  
 <223> n = A,T,C or G

<400> 754  
 gtcattgttca agtgttntaa tctgacgcag gcttatgcgg aggagaatgt tttcatgtta 60  
 cttatactaa cattagttct tctatagggt gatagattgg tccaattggg tgtgaggagt 120  
 tcagttatat gtttgggatt ttttaggcag tgggtgttga gcttgaacgc tttcttaatt 180  
 ggtggctgct tttagg 196

<210> 755  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<400> 755  
 ctggaaagga ttctgtacat ataagacatc aaatattgag ggatactgga actttttaa 60  
 taatgggcaa agaaagtcaa caaaggaagt tcatatgaaa tcaaactagt aatatgatta 120  
 caaaaaaaaaa gttttaaatt tttcttggcc ccagtcctat catttctgag ccaaatacaa 180  
 ttctatcgaa atcacctgaa actgaaatca ccattctagg ctggttttcc cataaagatg 240  
 gactgctcca aaaagaggaa tcaagaaaga atttggctca cagtgaatta ttcactttgt 300  
 cttagttaac taaaaataaa atctgactgt taactacaga aatcatttca aattctgtgg 360  
 tgataataaa gtaatgaccg c 381

<210> 756  
 <211> 341  
 <212> DNA



<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 371  
 <223> n = A,T,C or G

<400> 759  
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 aagaaagggg aagaggatta tgaagagagt catcagagag ctgtggctgc agaggtatcc 120  
 gtacttgaaa actggaagga gagtgaagtg tataagctac agatcatgga gtcacaagca 180  
 gaagcctttc tgaagaagct ggggctgatt agccgtgac ctgcagcata tcccgacatg 240  
 gagtctgata tacgttcacg ggaattgttt ctttctaata ttacaaaaga aattgagaaa 300  
 gcaaagcttc agtttgaaga acaaattaag gcaattaaaa atgggtcccg gctcagtgaa 360  
 ctttctaaag ngcagatttc tgagctttca tttcctgcct gtaacacggt tcatcccgag 420  
 ttactccctg agtcttcagg ccacgatgg 449

<210> 760  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5, 34, 136, 169, 173, 209, 227, 246, 269, 274, 291, 316,  
 341, 414  
 <223> n = A,T,C or G

<400> 760  
 ccatnaactg gaagcagctc actaaacaaa cagnggcata cccatagaac tgcatacttc 60  
 tcagcagtat gaaagaatga gctacttata taagcatcat tgataaacct caaaaaaaaa 120  
 atgccacatg aagaanccca agggggagaa acataaaaaac tttatatgnc agncatataa 180  
 aattctagaa aatgcaaact aatccatcnt aaaggaaagt aaatcancag ttgtctggag 240  
 gaccanagag agcaggagga gagagattnt taanggggtt aaagtaaatt ngggagtgcc 300  
 cttccatttt taaatnctat gaaaatgaaa gtaaaggccc ntgcatgttg taaactaata 360  
 gtaacaaaca gattgggttg gagtgggttg ttgtctgggg acatcattac aaan 414

<210> 761  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 761  
 gagcctcact aaaataacag atttcagtat agccaagtcc atcagaaaaga ctcaaattgga 60  
 atgattttaca agatagaaca ctttaaacca ggtcagtcct atctttttgt agctgaaggc 120  
 tatcagtcac aacacaattt cgcgtacacc tctgctcatt atggaattac acttaaaacg 180  
 aatctcaaga gggtgacctt tgttgtttca gataccatcc ctaaggagag tgggtaacag 240  
 gaagattgcc agtggttactg atggaaagaa gtgtttgttt gttttttttc ttgtcaaaga 300  
 cttacaccat agtttttaaat taaactgtca ggcattttct cagacagggt ttccttttca 360  
 atgcagtaat gaagaactaa gataaaaatc atgacttttg actgccactc aacattatta 420  
 catgcacc 428

<210> 762

<211> 574  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 47, 190, 449, 509, 510, 552  
 <223> n = A,T,C or G

<400> 762  
 caggctctgaa ctgataagta ttaagagacg tttgttgcta gttaagngtt ccagttgaga 60  
 gttcgaagtg aaaacctggg ctctttacca gtgttgagtg agaagattta tttctctttc 120  
 ctctgaattt accacatgta acatcacaga gacatgtaga gttccttttag gatttgcgat 180  
 ttgaaccagn ccagtcctgat tttcaggtga attctgtgaa gagcttgatg ggggaagtct 240  
 gaagacagaa ggaattaggg aaaaggggtga tacttacaga gttaaaggaaa taaatgaaaa 300  
 gataatggta tttttggtag ccacagggaa atagcaggag gggactggag atcacacaca 360  
 cgcacacgca cacacacaaa cacacacaca cgctaaaact caaactaaaa acctccaaa 420  
 ggagctgctt tgtttgacaga cttcaattng aagtagatac taagggcaag aatagaccag 480  
 ttaaaattca cctgaaaatc tcttccann cttcaaattgt gctaaaatat cactgtcagc 540  
 ttagcatctc tncatgtatg tatatataga tgta 574

<210> 763  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 41, 116, 411  
 <223> n = A,T,C or G

<400> 763  
 cctactatgg gtgttataat tttttactct ctctacaagg ntttttccta gtgtccaaag 60  
 agctgttcct ctttgacta acagttaaat ttacaagggg atttagaggg ttctgnnggc 120  
 aaattttaaag ttgaactaag attctatctt ggacaaccag ctatcaccag gctcggtagg 180  
 tttgtgcct ctacctataa atcttccac tattttgcta catagacggg tgtgctctt 240  
 tagctgttct taggtagctc gtctggtttc ggggtctta gctttggctc tccttgcaa 300  
 gttatttcta gttaattcat tatgcagaag gtataggggt tagtccttgc tatattatgc 360  
 ttggatataa tttttcatct ttccttgcg gtactatatc tattgcgcca ngtttcaatt 420  
 tctatgcct atactttatt tgggtaaatg gtttgctaa gggtg 465

<210> 764  
 <211> 151  
 <212> DNA  
 <213> Homo sapiens

<400> 764  
 ctgtcaatta atgctagtc tcaggattta aaaaataatc ttaactcaaa gtccaatgca 60  
 aaacattaa gttggttaatt actcttgatc ttgaattact tccgttacga aagtccttca 120  
 catttttcaa actaagctac tatatttaag g 151

<210> 765  
 <211> 251  
 <212> DNA



<213> Homo sapiens

<400> 765

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gaagagctta tcacctttca tgatcacgcc ctcatagtca ttttccttat ctgcttccta 60
gtcctgtatg ccccttttcc aacactcaca acaaaactaa ctaatactaa catctcagac 120
gctcaggaaa tagtaaccgt ctgaactatc ctgcccgcga tcctcctagt cctcctcgcc 180
ctcccatccc tacgcatcct ttacataaca gacgaggtca acgatccctc ccttaccatc 240
aatcaattg g 251
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<210> 766

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 10

<223> n = A,T,C or G

<400> 766

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cgaggtctgn cctcctgggt cttcatccat tattaacaga agagcatact ggtttcggtc 60
cataaaatct ttgggaaggg acaactgtaa aggaagttca tagtcgtcaa tatgaaggat 120
tttaatttct ggcttttcta tcttcttctt caggatagct tccttcagca tagaattggt 180
ttccaatata aaatattttg ctgggttggt cgtactatgt aggctgacca ctgggaccct 240
tggaacctta cagaataata agaaatgttg attcatggga ctaaaactgg catcaaaaata 300
tgtacattgt tctttcatga aattacatga aatgcattgg cgattcaata atccttcagt 360
agaagcactg tacag 375
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<210> 767

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 70, 160, 386, 408, 440, 484

<223> n = A,T,C or G

<400> 767

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cgaggtctga accctcgtgg agccattcat acaggtccct aattaaggaa caagtgatta 60
tgctaccttn gcacgggttag ggtaccgcgg cccgttaaac atgtgtcact gggcaggcgg 120
tgcccttaat actggtgatg ctagagggtga tgtttttggn aaacaggcgg ggtaagattt 180
gccgagttcc ttttactttt tttaaccttt ccttatgagc atgcctgtgt tgggttgaca 240
gtgagggtaa taatgacttg ttggtgattg tagatattgg gctgttaatt gtcagttcag 300
tggttttaate tgacgcaggc ttatgcggag gagaatgttt tcatgttact tatactaaca 360
ttagttcttc tatagggtga tagatnggtc caattgggtg tgaggagntc acttatatgt 420
ttgggatttt ttaggtaagn gggtgttgag cttgaacgct ttcttaattg ggggctgctt 480
ttang 485
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<210> 768

<211> 379

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 35  
 <223> n = A,T,C or G

<400> 768  
 ctgatattct attaaagata caaagaggag ctggnaccat ttctttctgaa actattacaa 60  
 acaactgaaa aggtggaatt tctccctaatt tcatttttagg aggccagcat tatactgata 120  
 ccaaaacctg gcagaggtac aataataaaa ggaaacttca agtcagtatc actgatgaac 180  
 accaatgtga aaatcctcaa taaaatactg gcaaactgaa ttcagcagca catcaaaaag 240  
 ctaatccacc acaatcaagt cagcttcac cctgcgatgc aagtctggtt caacatatgc 300  
 aaatcaataa atacaattca tcagataaac agagctaaag acaaaattca catgattttc 360  
 tcaatagatg cagaaaagg 379

<210> 769  
 <211> 518  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 282, 460, 490  
 <223> n = A,T,C or G

<400> 769  
 cgagggtccat atgatgatca gtctatatag ttttaaggcgc agatacacaa attttcaaaa 60  
 atatgggtag aatatagtc aatatgaatgg aatagacaat gctttgaaaa tcaactggagg 120  
 gaggttttat tgtttgtgaa aacatgttgt catcactttt tgctttaagc ccttggtggt 180  
 gaaataactc aaaccattct tccttatgct gaagatcgag aacccaagt atcacatcta 240  
 ccattcccact catcaatgtg attgggtcagt ctttgctgag gncctgcata gccagtttta 300  
 aagtttagagt tcttgcatat acatatgaaa aggcattgta cttgtgcttt caaagagctt 360  
 tttgcttggt gtaaaaagaa aactcaaatt acagtgtgat gtggaatata atggtggtag 420  
 tttcatcgag atgatgggaa agaattgata agataaagcn gaaagatgag cagaattttc 480  
 agattgggtn tggaaagagc acttaagaaa gaggggtgg 518

<210> 770  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 163, 283, 340  
 <223> n = A,T,C or G

<400> 770  
 tatgggtcct gagtggtgaa tataagataa caagacaatt cccttgcttt caagggaaat 60  
 cacactttat aaaactttga attcttgaaa tgggtttcag aggttccaag gtcaaattca 120  
 agaataagag ttaagaagaa aaagactatg agaaaggaag tgntgacccc atttgcat 180  
 aaatggcagg aatagtctca atctactcat tggggaaaaa tgtatgttgc atatttttga 240  
 gatattgcaa cttgctctct ctctttgcca cccaccctt tgnatgctc tgtttttggg 300  
 ctgaattggc aagaaaaatg gctggagggc tggagaagn tggacccttc ttccttcttc 360  
 cttcttctct ctttctcc 378

<210> 771  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<400> 771  
 cataaatatt atactagcat ttaccatctc acttctagga atactagtat atcgctcaca 60  
 cctcatatcc tccctactat gcctagaagg aataatacta tcaactgttca ttatagctac 120  
 tctcataacc ctcaacaccc actcctcttt agccaatatt gtgcctattg ccatactagt 180  
 ctttgccgcc tgcgaagcag cggtagg 207

<210> 772  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 115  
 <223> n = A,T,C or G

<400> 772  
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
 gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgnngggca 120  
 aattttaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180  
 ttgtgcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240  
 agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctt ccttgcaaag 300  
 ttattttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360  
 tggttataat ttttcatctt tccc 384

<210> 773  
 <211> 182  
 <212> DNA  
 <213> Homo sapiens

<400> 773  
 cccttttctt aacactcaca acaaaactaa ctaatactaa catctcagac gctcagggaa 60  
 atagaaaccg tctgaactat cctgcccgcc atcatcctag tcctcatcgc cctcccatcc 120  
 ctacgcaccc ttacataac agacgaggtc aacgatccct cccttaccat caaatcaatt 180  
 gg 182

<210> 774  
 <211> 191  
 <212> DNA  
 <213> Homo sapiens

<400> 774  
 ccatggctag gtttatagat agttgggtgg ttgggtgtaa atgagtgagg caggagtccg 60  
 aggaggtttag ttgtggcaat aaaaatgatt aaggatacta gtataagaga tcagggttcgt 120  
 ccttttagtgt tgtgtatggc tatcatttgt tttagaggta gtttgattag tcattgttgg 180  
 gtggtaatta g 191

<210> 775  
 <211> 192

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 12, 45, 51, 62, 90, 114, 134, 163  
<223> n = A,T,C or G

<400> 775  
ccatggcctaa gntatataga tagctgggtg gctggagtaa atgantgagg nacgagtcgg 60  
angagggttag ttgaggcaat aaaaatgatn aaggatacta gtataagaga tcangttcgt 120  
cctttacatg ttgngtatgg ctatcatttg ttttgaggct agnttgatta gtcattgttg 180  
ggtggtaatt aa 192

<210> 776  
<211> 144  
<212> DNA  
<213> Homo sapiens

<400> 776  
ctgacccctt agaaccctgg ctctgccatt agctaggacc taagactctg cccacatttt 60  
ggtctgttct ctcccattac acatagggtt gtctcagcat gcaagagttt ttccttttaa 120  
aaaaaaaaaa aaaaaaaaaa aaaa 144

<210> 777  
<211> 483  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 14, 339, 461  
<223> n = A,T,C or G

<400> 777  
cctactatgg gtgntaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60  
gctgttcttc tttggactaa cagttaagtt tacaagggga tttagagggt tctgtgggca 120  
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggttagt 180  
ttgtgccttc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240  
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtctc ccttgcaaag 300  
ttattttctag ttaattcatt atgcagaagg tataggggnt aagtccttgc tatattatgc 360  
ttggatataa tttttcatct ttcccttgcg gtactatac tattgcgcca ggtttcaatt 420  
tctgcgcctt atactttatt tgggtaaatg gtttggtctaa ngttgctggt agaagggtga 480  
gtg 483

<210> 778  
<211> 393  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 295, 297, 370  
<223> n = A,T,C or G

<400> 778  
 ctgcattttt attgcatct gcagatgaac tgggaaaatc tcattttaca acagaactga 60  
 gacagacgac caccatattc actgaggtct aaatttgcag ttccactaa tgacattttg 120  
 atttccaac agagatactt ctggtcttac tgcacagtct tttaagagaa atacttccat 180  
 tatgccacat tgtccttgat ccgtaagtga tgtgttaagg tgcttcaaag gaactctgac 240  
 ctctgaagta cttgagctac tttagtatgt ccagcctatt gctttttgtt ttagngngtc 300  
 accataaata tcaggggcat aaaaggctat ctattcttaa ttcaaggata aaacagaaga 360  
 agcttgtggn ataaaacaat agtcaagatc cag 393

<210> 779  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4  
 <223> n = A,T,C or G

<400> 779  
 cctnttgatt tgatgggtaa ggggagggat cgttgacctc gtctgttatg taaaggatgc 60  
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 ctatttcctg agcgtctgag atgttagtat tagttagttt tgttgtgagt gttaggaaaa 180  
 gggcatacag gactaggaag cagataagga aaatgactat gagggcgtga tcatgaaagg 240  
 tgataagctc ttctatgata ggggaagtag cgtcttg 277

<210> 780  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5, 19, 33, 38, 84, 323  
 <223> n = A,T,C or G

<400> 780  
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 attgtctaac tttttatttt tggnetggct gttgtggtgt gcaaaactcc gtacattgct 120  
 attttgccac actgcaacac cttacagatg tggaagatgt gaaatttgct atcaattatg 180  
 actaccctaa ctctcagag gattatattc atcgaattgg aagaactgct cgcagtacca 240  
 aaacaggcac agcatacact ttctttacac ctaataacat aaagcagggg agcgacctta 300  
 tctctgtgct tcgggaagct aancaaac 328

<210> 781  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 75, 237  
 <223> n = A,T,C or G

<400> 781  
 ctgttcagaa agctcattgg acctggtttt gaaaataaaa caaagttaaa accctgggag 60  
 gagttattgt gcagngtgga gtactcaggc tttcttataa agaaaaaaaa agttatctgg 120  
 taccaaagtg tgcaacctac agaccctcag gtactgccct gtgacttctc tgtatgacat 180  
 cacaaggctg ccaagtgcct gtttttctag aactaggagt tggtgagggtt tggctantgc 240  
 tgaaaccatg cataggattg gtttactaaa ttaaaacctt attacgtacg tcttccaaaa 300  
 gacag 305

<210> 782  
 <211> 497  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 385, 433, 440, 471  
 <223> n = A,T,C or G

<400> 782  
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 gctgggatag ggagtgatat ttctaggact tagacattga aaactaattc agcctgtagt 120  
 aacctggatg gttttcaatg gcatgggttag tcaaattcat ggttttaaac ttagaagcag 180  
 ctttcggggg agagggtagg ttggagcatt tattacatat tttactgttt aatgtcttaa 240  
 ccgtgggcct ttttaattgt aaacactgaa atgattgttg ggctgtggaa aacatttacc 300  
 tatttacctt ggaagtttta aaagacagtc cactttttag catgtgtgtt gcgtccagcc 360  
 tgtggtcgtc ttaactaata aatgngattt ttctctcaaa aaaaaaacct ccccgggcgg 420  
 ccgctcaagg gcnaattccn cacactggcg gccgttacta ggggatccga nctcgggtcca 480  
 agcttggcgt aatcatg 497

<210> 783  
 <211> 364  
 <212> PRT  
 <213> Homo sapiens

<400> 783  
 Met Trp Gln Pro Leu Phe Phe Lys Trp Leu Leu Ser Cys Cys Pro Gly  
 1 5 10 15  
 Ser Ser Gln Ile Ala Ala Ala Ala Ser Thr Gln Pro Glu Asp Asp Ile  
 20 25 30  
 Asn Thr Gln Arg Lys Lys Ser Gln Glu Lys Met Arg Glu Val Thr Asp  
 35 40 45  
 Ser Pro Gly Arg Pro Arg Glu Leu Thr Ile Pro Gln Thr Ser Ser His  
 50 55 60  
 Gly Ala Asn Arg Phe Val Pro Lys Ser Lys Ala Leu Glu Ala Val Lys  
 65 70 75 80  
 Leu Ala Ile Glu Ala Gly Phe His His Ile Asp Ser Ala His Val Tyr  
 85 90 95  
 Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser Lys Ile Ala Asp  
 100 105 110  
 Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser  
 115 120 125  
 Asn Ser His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Arg Ser Leu  
 130 135 140

Lys Asn Leu Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Phe Pro  
 145 150 155 160  
 Val Ser Val Lys Pro Gly Glu Glu Val Ile Pro Lys Asp Glu Asn Gly  
 165 170 175  
 Lys Ile Leu Phe Asp Thr Val Asp Leu Cys Ala Thr Trp Glu Ala Met  
 180 185 190  
 Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile Gly Val Ser Asn  
 195 200 205  
 Phe Asn His Arg Leu Leu Glu Met Ile Leu Asn Lys Pro Gly Leu Lys  
 210 215 220  
 Tyr Lys Pro Val Cys Asn Gln Val Glu Cys His Pro Tyr Phe Asn Gln  
 225 230 235 240  
 Arg Lys Leu Leu Asp Phe Cys Lys Ser Lys Asp Ile Val Leu Val Ala  
 245 250 255  
 Tyr Ser Ala Leu Gly Ser His Arg Glu Glu Pro Trp Val Asp Pro Asn  
 260 265 270  
 Ser Pro Val Leu Leu Glu Asp Pro Val Leu Cys Ala Leu Ala Lys Lys  
 275 280 285  
 His Lys Arg Thr Pro Ala Leu Ile Ala Leu Arg Tyr Gln Leu Gln Arg  
 290 295 300  
 Gly Val Val Val Leu Ala Lys Ser Tyr Asn Glu Gln Arg Ile Arg Gln  
 305 310 315 320  
 Asn Val Gln Val Phe Glu Phe Gln Leu Thr Ser Glu Glu Met Lys Ala  
 325 330 335  
 Ile Asp Gly Leu Asn Arg Asn Val Arg Tyr Leu Thr Leu Asp Ile Phe  
 340 345 350  
 Ala Gly Pro Pro Asn Tyr Pro Phe Ser Asp Glu Tyr  
 355 360

<210> 784  
 <211> 6353  
 <212> DNA  
 <213> Homo sapiens

<400> 784  
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 cagcgtgacc gctacacttg ccagcgcacct agcgcgccgt cctttcgctt tcttcccttc 120  
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&lt;211&gt; 5502

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 785

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<210> 786  
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 <212> PRT  
 <213> Homo sapiens

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Gln Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile
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Arg Ile Gln Leu Arg Ser Gln Val Leu Gly Arg Glu Met Arg Asp Met
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<210> 787  
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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 787

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Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser
      50           55           60
Thr Phe His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Asn Ser Leu
      65           70           75           80
Lys Lys Ala Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Ser Pro
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Lys Val Ile Phe Asp Ile Val Asp Leu Cys Thr Thr Trp Glu Ala Met
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&lt;210&gt; 788

&lt;211&gt; 1633

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 788

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 <212> PRT  
 <213> Homo sapiens

<400> 789

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457

<210> 791

<211> 126

<212> PRT

<213> Homo sapiens

<400> 791

Ser	Pro	Val	Leu	Gly	Thr	Arg	Arg	Ser	Cys	Glu	Pro	Ala	Thr	Arg	Val
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Pro	Glu	Val	Trp	Ile	Leu	Ser	Pro	Leu	Leu	Arg	His	Gly	Gly	His	Thr
			20					25					30		
Gln	Thr	Gln	Asn	His	Thr	Ala	Ser	Pro	Arg	Ser	Pro	Val	Met	Glu	Ser
		35					40					45			
Pro	Lys	Lys	Lys	Asn	Gln	Gln	Leu	Lys	Val	Gly	Ile	Leu	His	Leu	Gly
	50					55					60				
Ser	Arg	Gln	Lys	Lys	Ile	Arg	Ile	Gln	Leu	Arg	Ser	Gln	Cys	Ala	Thr
65					70					75					80
Trp	Lys	Val	Ile	Cys	Lys	Ser	Cys	Ile	Ser	Gln	Thr	Pro	Gly	Ile	Asn
				85					90					95	
Leu	Asp	Leu	Gly	Ser	Gly	Val	Lys	Val	Lys	Ile	Ile	Pro	Lys	Glu	Glu
			100					105					110		
His	Cys	Lys	Met	Pro	Glu	Ala	Gly	Glu	Glu	Gln	Pro	Gln	Val		
		115					120					125			

<210> 792

<211> 461

<212> DNA

<213> Homo sapiens

<400> 792

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<210> 793

<211> 108

<212> PRT

<213> Homo sapiens

<400> 793

Arg	Arg	Ser	Cys	Glu	Pro	Ala	Thr	Arg	Val	Pro	Glu	Val	Trp	Ile	Leu
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Ser	Pro	Leu	Leu	Arg	His	Gly	Gly	His	Thr	Gln	Thr	Gln	Asn	His	Thr
			20					25					30		
Ala	Ser	Pro	Arg	Ser	Pro	Val	Met	Glu	Ser	Pro	Lys	Lys	Lys	Asn	Gln
		35				40					45				
Gln	Leu	Lys	Val	Gly	Ile	Leu	His	Leu	Gly	Ser	Arg	Gln	Lys	Lys	Ile

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      50              55              60
Arg Ile Gln Leu Arg Ser Gln Val Leu Gly Arg Glu Met Arg Asp Met
65              70              75              80
Glu Gly Asp Leu Gln Glu Leu His Gln Ser Asn Thr Gly Asp Lys Ser
      85              90              95
Gly Phe Gly Phe Arg Arg Gln Gly Glu Asp Asn Thr
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<210> 794  
 <211> 970  
 <212> DNA  
 <213> Homo sapiens

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<400> 794
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<210> 795  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

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<400> 795
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      20              25              30
Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser Lys Ile Ala Asp
      35              40              45
Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser
      50              55              60
Thr Phe His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Asn Ser Leu
65              70              75              80
Lys Lys Ala Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Ser Pro
      85              90              95
Met Ser Leu Lys Pro Gly Glu Glu Leu Ser Pro Thr Asp Glu Asn Gly
      100              105              110
Lys Val Ile Phe Asp Ile Val Asp Leu Cys Thr Thr Trp Glu Ala Met

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	115		120		125										
Glu	Lys	Cys	Lys	Asp	Ala	Gly	Leu	Ala	Lys	Ser	Ile	Gly	Val	Ser	Asn
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Phe	Asn	Pro	Gln	Ala	Ala	Gly	Asp								
145					150										

<210> 796  
 <211> 2435  
 <212> DNA  
 <213> Homo sapiens

<400> 796

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<210> 797  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 797  
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 20 25 30  
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 35 40 45  
 Pro Pro Gly Arg Ala Glu Trp Tyr Gly Pro Ala Gly Val Lys Ala Gly  
 50 55 60  
 Gly Arg Arg Arg Val Pro Arg Arg Arg Arg Arg Trp Gly Cys Val Gln  
 65 70 75 80  
 Glu Glu Arg Trp Ala Gly Pro Ala Arg Val Gly Gly Arg Pro Arg Gly  
 85 90 95  
 Pro Gly Arg Ala Ala Ala Arg Arg Ala Ala Ala Ser Thr Arg Ala Ala  
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 Ser Pro Arg Cys Thr Thr Cys Arg  
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<210> 798  
 <211> 164  
 <212> PRT  
 <213> Homo sapiens

<400> 798  
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 20 25 30  
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 35 40 45  
 Pro Pro Ala Ala Arg Asn Gly Met Ala Arg Pro Glu Leu Arg Pro Gly  
 50 55 60  
 Gly Gly Gly Glu Ser Arg Gly Gly Gly Asp Asp Gly Ala Ala Cys Arg  
 65 70 75 80  
 Arg Asn Ala Gly Gln Gly Arg Arg Gly Ser Gly Gly Ala Arg Gly Ala  
 85 90 95  
 Arg Ala Glu Arg Arg Arg Ala Gly Arg Gln His Pro Leu Gly Pro His  
 100 105 110  
 Arg Arg Gly Ala Gln Arg Ala Ala Glu Arg Ala His Pro Ala Ala Ala  
 115 120 125  
 Val Arg Val Gly Pro Arg Gln Gly Ala Glu Pro Arg Gly His Asp Pro  
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 Gly Gly Pro Arg Gln Arg Ala Pro His Arg Cys Pro Leu Asp Gln Arg  
 145 150 155 160  
 Gly Pro Gly Arg

<210> 799  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 799  
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 Pro Arg Pro Arg Gly Met Val Trp Pro Gly Arg Ser  
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<210> 800  
 <211> 2477  
 <212> DNA  
 <213> Homo sapiens

<400> 800  
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<210> 801

<211> 1619

<212> DNA

<213> Homo sapiens

<400> 801

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<210> 802

<211> 3115

<212> DNA

<213> Homo sapiens

<400> 802

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<213> Homo sapiens

<400> 803

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&lt;210&gt; 805

&lt;211&gt; 394

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 805

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<213> Homo sapiens

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tcagcagtg	cgagggtcag	agtttctgga	gccttgggag	gaggcaacct	tgtgaggggg	1860
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ataggacaga	gtcggagtaca	tctctgcttg	gaaaaacata	tcaacacct	tttttttga	1980
tattatatic	ttgttcataa	aagaaaactt	tcacatttgt	tttaacaaac	cccacagctg	2040
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tgttaaagtt	taatggacat	tcacattttag	catgtctcaa	agaaatctca	tgtaaacctt	3000

```

ggccatcctg ttctacctta actttctgag tctatggaat gataatttca catctcataa 3060
acttgactga tgtaagtgtc aagaaaagat tgacattttg ttaaaacttc gtagccaagt 3120
gtgtaacgct taagcagact ttcataatttc aaatctctat agcacgtgta actctttttt 3180
caagatgtga aataatcatt aggtcagtca tttgtaaata gtacagctgc tgtgggcttt 3240
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attattttac ttccatttaa gatataaatg tagagaaata agtataattc taagctaata 3600
cgtacgcaat gtaggaagct gtaattactg accaaaaacta tgtgaagtgg agaaaacctg 3660
gggaagtggg tggttttaga tgaaactgaa gttaaattca tattgattta aagtaaattg 3720
ttataacttt ataaagtttt tcatcatcac cacagcaatc acaaagagaa taattatgaa 3780
tatacgcaag aggaaatgag aagggaatcc aaatgtcatt aaaaaaaaaa 3829

```

<210> 808

<211> 781

<212> DNA

<213> Homo sapiens

<400> 808

```

gcgggcggagc tgtgagccgg cgactcgggt ccctgaggtc tggattcttt ctccgctact 60
gagacacggc gggtaggtcc acaggcagat ccaactggga gttgaagtgt gagtgagagt 120
gaagaggaac cagcaggctt ccggagggtt gtgtggtcag tgactcagag tgagaaggcc 180
ctcgaagtcg tcgtccctct catgcgggtgc cagcccatg gaccttcttg tctcgctacg 240
gccataacta gggaggaagg agggccgagg agtggagggg ctccaggcgaa gctgggggtgc 300
tgttgggggt atccgagtcc cagaagcacc tggaaccccg acagaagatt ctggactccc 360
cagacgggac caggagaggg acggcatgag cgacacacac aaacacagaa ccacacagcc 420
agtcccagga gcccagtaat ggagagcccc aaaaagaaga accagcagct gaaagtcggg 480
atcctacacc tgggcagcag acagaagaag atcaggatac agctgagatc ccagtgcgcg 540
acatggaagg tgatctgcaa gagctgcatc agtcaaacac cggggataaa tctggatttg 600
ggttccggcg tcaaggtgaa gataatacct aaagaggaa actgtaaaat gccagaagca 660
ggtgaagagc aaccacaagt ttaaataag acaagctgaa acaacgcaag ctgggtttat 720
attagatatt tgacttaaac tatctcaata aagttttgca gctttcacca aaaaaaaaaa 780
a 781

```

<210> 809

<211> 160

<212> PRT

<213> Homo sapiens

<400> 809

```

Met Arg Cys His Ala His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr
1      5      10      15
Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly
20     25     30
Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg
35     40     45
Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg
50     55     60
His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met
65     70     75     80
Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His
85     90     95

```

```

Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys
      100                      105                      110
Ala Thr Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly
      115                      120                      125
Ile Asn Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile Ile Pro Lys
      130                      135                      140
Glu Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu Gln Pro Gln Val
145                      150                      155                      160

```

```

<210> 810
<211> 624
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5, 74
<223> n = A,T,C or G

```

```

<400> 810
atganaagga gatgacacaa aagttagatc tcatcacaag tgatttggca gattaccagc 60
agccctcat gatnggcacc gggacagtca cgaggaaggc ctccaccttc cggcccatgg 120
acacggatgc cgaggaggca ggggtgagca ccgatgccgg cggccactat gactgcccgc 180
agcgggcccg ccgccacgag tacgcgctgc ccctggcgcc cccggagccc gagtacgcca 240
cgcccatcgt ggagcggcac gtgctgcgcg cccacacgtt ctctgcgcag agcggctacc 300
gggtcccagg gcccagccc ggcacaaaac actccctctc ctcgggcggc ttctcccccg 360
tagcgggtgt gggcgcccag gacggagact atcaaaggcc acacagcgca cagcctgcgc 420
acaggggcta cgaccggccc aaagctgtca gcgcctcgc caccgaaagc ggacacctg 480
actctcagaa gcccacaacg catcccggga caagtgcag ctattctgcc ccagagact 540
gcctcacacc cctcaaccag acggccatga ctgccctttt gtgaacacaa tgtgaaagaa 600
gcctgctgtg gtactgagcg tcgg                                     624

```

```

<210> 811
<211> 572
<212> DNA
<213> Homo sapiens

```

```

<400> 811
agcgggctgt gaggacgctc tgggccaggc tgcagcgcca gcgttccgag ctgctgggct 60
ctttcgagga tgttctgata cgcgcgtcgc cctgcctgga ggaggcggcc cgggagcgcg 120
acggcctgga gcaggcgctg cggaggcgcg agagcgagca cgagaggag gtgcgcgctc 180
tgtacgagga gacggagcag cttcgggagc agagccggcg ccgcccagat cagaacttcg 240
cccgcgggga gcggagaagc cgtctggagc tggagctgca gatccgcgag caggacctgg 300
aacgcgcggg cctgcggcag cgggagttag agcagcagct gcacgcccag gctgcggagc 360
acctggaggc acaggcccag aactcccagc tgtggcgggc gcacgaggcg ctgcgaacgc 420
agctggaggg ggcgcaggag cagatccgca ggctggagag cgaagcacga ggccgccagg 480
agcaaacca acgagacgtg gtcgccgtct ccaggaacat gcagaaagag aaagtcagcc 540
tgctacggca actggagctg ctcagggagc tg                                     572

```

```

<210> 812
<211> 594
<212> DNA
<213> Homo sapiens

```

<220>

<221> misc\_feature

<222> 45

<223> n = A,T,C or G

<400> 812

```
cggaagttgg cgcagcgagg ttgccaatgg tgcgtccctg atttnatgcc gtcggtggtg 60
ttttgcgggc tgccgtacag cggcaagagc cggcgtgctg aagagttgcg cgtggcgctg 120
gctgccgagg gccgcgcggt gtacgtggtg gacgacgcag ctgtcctggg cgcagaggac 180
ccagcgggtgt acggcgattc tgcccgtgag aaggcattgc gtggagctct gcgagcctcc 240
gtggaacggc gcctgagtcg ccacgacgtg gtcacccctg actcgcttaa ctacatcaaa 300
ggtttccggt acgagctcta ctgcctggca cgggcggcgc gcaccccgtc ctgcctggtc 360
tactgcgtac ggcccggcgg cccgatcgcg ggacctcagg tggcgggcgc gaacgagaac 420
cctggccgga acgtcagtgat gagggtggcg ccacgcgctg aggaggacgg gagagcccag 480
gcggcgggca gcagcgtcct cagggaactg catactgcgg actctgtagt aaatggaagt 540
gcccaggccg acgtacccaa ggaactggag cgagaagaat ccgggggctgc ggag 594
```

<210> 813

<211> 561

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 121, 352, 368, 440, 445, 486, 497, 516, 528, 540, 550, 552

<223> n = A,T,C or G

<400> 813

```
tctgacacac gagaccggtt atcccatctc cgcgcccctc tgtgggtatt acacagccac 60
tagatgaagc caaacattgt tggaggtagt gaaatcctag actccaccat gtgtccaggc 120
ncccattgac gtcctctctt ctgaaaactc cgtgtggccc tgcgtctgca ctgtcatgag 180
gggtgatggg agctagatac ccaccacgga caatgatcat cagtttgggg ttctctgggt 240
ctcacaggga cgcacattct aggggtagca cgacactccc cctgtagttg ctccacacaa 300
acgggatctc tcatccaggc gatacgtctg gtctgtggc atgtggctct cnacgaaaca 360
ccagggangc attatgttgg ggacttcttg gggctctgct ggtctctgct ccagacacga 420
ttaatccgaa atgtgttaan tcgancacat gggctccacg ccaggacagc tcccatcgaa 480
ctctcnaggc tctctanctc agggatgaag gaggtnaagt gatcgatnct cacaagcgan 540
agctctcgcn cnatatctgc g 561
```

<210> 814

<211> 307

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 2, 6, 9, 24, 26, 45, 46, 63, 64, 73, 81, 82, 91, 95, 138, 148, 151, 188, 205, 206, 212, 223, 229, 234, 242, 245, 248, 252, 258, 262, 270, 278, 280, 301

<223> n = A,T,C or G

<400> 814

```
cntcgnngng ttggttgtgt gggntnttct cgggtgattg ggtgnnatta ctggacccaa 60
```

```

ccnncgtgga aangggctggg nncgcggccg ntctngcaga agtatcccga tttttttttt 120
tttttttttt tttttggngg agggaaantt ncagacatag ctttattgct gactcctgcc 180
cccttcanag ccctagtcac aggcnncagg gntgttttgt aanttaaant ttcnggaaaa 240
tngngtntt tntgcatnca anagaagggn tgccaaangn ggggtattgc ttctgggtgg 300
nttacct 307

```

```

<210> 815
<211> 784
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 596, 656, 727, 763, 768
<223> n = A,T,C or G

```

```

<400> 815
ggcacgagat ataatcagac tcttactcct gtacttctag aaatgatgca aacacttcaa 60
ggacccacaa atgtggaaga tatgaatgca ctgttaatca aagatgctgt gtataatgct 120
gttgatttaa gctgcttatg agctctttga cagtgttgat tttgatcagt ggtttaaaaa 180
ccagcttctt ccagaattac aagtcattca caataggtat aagccattgc gacgcagggt 240
gatttggtct atcggtcagt ggatttctgt gaaattcaag tctgacttaa gacccatgct 300
ttatgaagca atctgtaact tgcttcaaga tcaagattta gtggccgtat tgaaacagct 360
acaactttga agttaactgt tgatgatttt gaatttagaa cagatcagtt tctaccgtat 420
ttggaaacca tggtcacact actttttcag ttactgcagc aagttacaga atgtgacaca 480
aagatgcatg ttttgcattg cttttcttgt gtgatcgaaa gagtcaacat gcagatacga 540
ccatatgttg gatgtttggt acaatatttg cccctccttt ggaagcagaa gtgaanaaca 600
caatatgttg agatgtgcta ttttgaccac acttattcat cttggtcagg gattangagc 660
agacagcaag acctgtccct ttctgtctcc agttattcac tgagtaccag atgtttcaca 720
gccttcncat gtttattttt ctggaaaatg ggtaaaaaat atnnggtanga acctttggga 780
aaac 784

```

```

<210> 816
<211> 813
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 740, 788, 790, 798, 811
<223> n = A,T,C or G

```

```

<400> 816
ggcacgagca ggctgggaag aagtccttgc ttctcaaggc cacgtaccgg ccgcgtcctt 60
ccacccttgc cttttaaaac acagatgcca atgatacgc caacagacac tacattcccc 120
agcagctgct gccagagccc tcttgtagct tctttatttt ctgtttcttt ccagctttcc 180
tacctccta tcccccttg tgtttgggcc acaattttga aataattttt attataggta 240
tgtgctgcc aagccagatt ttataaagg aaaataaatt aagaatttaa acagtaaaag 300
ccagtgtctc aaaatgtcag cattaataatg tgaaggggac agcagggtgt gaaccggaaa 360
cacacattgc caaacagttg ccaactgaac tgctgcttct catggtccgt tcttttcttt 420
gcccttaagg tcaatgccag tgtccagacg agcagtgtag aaaagctccc tgtgtgggtt 480
gtcgtgaggt ctgcttgat ctcttctactg gcgttagttt cattagctct ttattctcct 540
tacgttcgag tgaatctgcc aagaacactg gtggatagta ttatcctaac acttttgggt 600
tgggggcggg gagggggcag ggaatagtga gctggcttta ccaccttcag gatctcgaat 660

```

```

tgggcgcttg aacctaagaa agattgtgga cttatcaaaa gtcaccgctc agtggttcgtc 720
aagcatgtat ttatgtgacn atcatactag ggaggggatg gttgggaatt cttccatgtg 780
caaatttngn cccgcaanaa gcaaaactgg ng 813

```

```

<210> 817
<211> 229
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 30, 57, 102, 112, 124, 222
<223> n = A,T,C or G

```

```

<400> 817
gaaactttta cattaatgat ttattaaaaan aaacaactcc ttgtcccact ccactgngct 60
gcttgtaatc tccatacatg gcctccattt tcaactgttt tnttggtcac anagctccaa 120
acanacacat ttttttttcc aggtaaaagc tgtttttagt ttgtagtaca aatgtgactg 180
catccaatac tgacacattg ttcctttggc ccacagtccc antcaccac 229

```

```

<210> 818
<211> 781
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 355, 437, 539, 557, 569, 593, 608, 635, 636, 653, 654, 662,
665, 674, 697, 699, 708, 724, 734, 743, 755, 763, 764, 769,
775
<223> n = A,T,C or G

```

```

<400> 818
ggcacgaggt gtgtgtgtgt gtgtgtgtgt aacacatggg cattggtcct tccaggacaa 60
cttggttagg gctccagggt ggctctcag gcaggaacag gcttttttcc tcctgtcttt 120
tcctcacatc acgtcctgcc ccagggtcact gcataaataa gtgctttgga aagtattcat 180
ctagaaagta acataaatac tgtacataga aaagggttgc cgccccctag ccttcgcact 240
gccccagaga gctctccaca tattgcacac ggctcccca gccctgtggg gtccaggcct 300
ggctgtgtct ttggtagaag cttcagggtg agttcctggg cagccccac atctncaccc 360
tgctcccaaa ggggagctct agggtagtca gtgggtacca gaagccttgc tcggcctcgc 420
tggtggcctt ctaccangga tgctttcaca aggatgagac agaatcccaa tggatatgcc 480
ctgcttggac actctgctca aggtctgcat gtggcctggg aggagacagg caggctgang 540
gcagggtggac aggtgantcc tggccacana aggcaggctc acacccttca cangaatagg 600
tggtttgngc tgtcatctcg gccacggtc tctnntgcg ccaccccccc ttnntgaatc 660
gnaantcctc aaanccctta ccaccacttg atgaccnanc atttttangg cctggcttga 720
aggngggggc cttnggcccc ccnaaggggg aaatncccc ggnngaattc ccaangggga 780
a 818

```

```

<210> 819
<211> 199
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc\_feature

<222> 2, 3, 4, 12, 20, 21, 22, 36, 37, 49, 76, 80, 83, 88, 157,  
165, 167, 177

<223> n = A,T,C or G

<400> 819

```
cnnngtgga anggctgggn nngcgccgt tttcgnngta gtatcgcgnt tttttttttt 60
tttttgtggg aggttntgcn gnttttgnnt gctctctcaa attccaggaa ttgacttatt 120
taattaatgc ctgcaacctg tgctagcaaa tatttgnaca aaacnanttg tgttgngat 180
gttcttttgg gtcgggcag                                     199
```

<210> 820

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 2, 3, 128, 131, 150, 157, 159, 166, 172, 174, 180, 182,  
185, 192, 202, 206

<223> n = A,T,C or G

<400> 820

```
nnnggcacga ggagagagag agagagagag agagagagag agagagagag agagagagag 60
agagagagag agagagagag agagagagag agagagagag agagagagag agagagagag 120
agacagtncf ntgtgtgtct ctctgtctcn aagtaenenc tgaggatctt gntntctgtt 180
tntngtaca cngtatctct cntggncata t                                     211
```

<210> 821

<211> 952

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 2, 3, 29, 688, 692, 702, 742, 749, 767, 774, 786, 805,  
815, 828, 835, 840, 842, 854, 864, 868, 871, 879, 889, 890,  
895, 900, 904, 909, 912, 915, 926, 939, 944, 947

<223> n = A,T,C or G

<400> 821

```
nnntcaggct cctggatgag ccctgcgana gaggggtggca gcacggagag agctgctgga 60
ggcagcagag caccaaggaa acatccagac atgcgcggcc cggcccatcc gctcccggaa 120
cagcaccaag acgaaatggg aaactacatg tccccagggt cgaggctgca ggggcagact 180
ctggtgtgaa caggggggat gtgaccacct aaggaaaagg tcacacctgt cttggtatca 240
ggggctcaag agctctcaaa aatgtaaggg gccgacagtc ccctgcccc a ggctgatca 300
caactccagg gtcattgagg cagagtaaaag tgcagagggt tttaaacata accaaaattt 360
caggagaggc caattcttac ttgaaagagc aacaccctgg ggcgctgctt gccattactt 420
cctcatcttt agcaacacat ttgcttttca aggtgttctt tgtggaaaca cacatacaca 480
tagacacatg cccctcagat gtcccttgcc ccctgattag tagaatgtgg ggtttccaca 540
atgagcagaa actgatccaa ttttggttaa gtttgagaag ccctctgaat ttgggtggtt 600
ggcccaatgt aaatacttcc gcagagatgg agggcattca aaacagggtc tgaaaggatc 660
cagcctatct tggactttgt tctggaancc anggattcag cnttggccac ctgtgccagg 720
cttgcaaggc ctggtgtgaa cncccaaant ggcagcaaaa acaacanaca gccnctgcac 780
```

```

tttgngtggg ccaacgtttg gctnaacaa atctngcggg ttgggatntt cttgntttcn 840
cncacagggg accnaaaacc cccntacntg naataacnt tttttttttnn aacctttan 900
ccantgggnt tncnaaaaaa acttgncccc ttttttttnc caangnaaa at 952

```

<210> 822

<211> 587

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 264, 335, 366, 371, 410, 413, 416, 424, 438, 464, 477, 478,  
497, 502, 509, 540, 575, 577, 581

<223> n = A,T,C or G

<400> 822

```

ggcacgagaa ctagtctcga gttttttttt ttttttttta acattttctga attttattat 60
ttttagggaa gacacgcagt ttcacaagaa acaatgattt ttctcaaaca atagaaaaaa 120
aggtcttttt gaaaaatcca ctgtcttaga tgaaaagtct acccagcaag cactggggca 180
gttctgagag tagaaaccag tgtggtggaa gttacttata ggaagttcag tgcagaggtc 240
tcacaagtc ctgattagtt ctgnaaggct ccattggggc agctcagggt aacagtggga 300
atgagctcac agacaaaggc aggcaccagt tcctntgccc gggatgcagg ctggctcact 360
ccccangcgg ntgcactctg cttcagactc atcaaactgc tgctgtccan ctncgncatg 420
actntgttga gaacatanaa ctctgctctc tggctttgct tcantcctg gtgggcnaaa 480
ttctgcttag ccttctncac tntgaaggnt gggcttttaa ctttttgatt tttttttccn 540
ggcaggggga accatgaatg gggtagatac ccacncnggg ntttggc 587

```

<210> 823

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 4, 7, 15, 17, 35, 38, 44, 53, 90, 105, 108, 115, 117,  
121, 126, 128, 158, 176, 178, 184, 201, 221, 227, 229, 233,  
239, 250

<223> n = A,T,C or G

<400> 823

```

ntcnatnct actangnaaa actgactccg cctnagnca cctngtggtc canggctgcg 60
gagctgcgat acagccttcc ggggtctctg tggaaccccg acctntcntg gtgtntntcc 120
ntcccnccc ccaaccgcgc aagggcctgc ctttctnct gggcctttgc cagcgnntgg 180
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```

<210> 824

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 7, 15, 17, 39, 60, 81, 98, 101, 110, 111, 138, 145, 174,



222, 250, 262, 311, 318, 332, 336, 345, 378, 406, 411, 414,  
421, 426, 439, 447, 448, 450, 474, 479, 489, 494, 498, 505,  
508, 510

<223> n = A,T,C or G

<400> 824

```
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cccaccgcnt aaanggcnga aattncnana ccacacgggt 520
```

<210> 825

<211> 2064

<212> DNA

<213> Homo sapiens

<400> 825

```
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```

```

agcaaatgtg  cccaaccagc  ttactaaaag  ggggaggaag  ggagggcaaa  gggatgagaa  1980
gacaagtttc  ccagaagtgc  ctggttctgt  gtacttgtcc  ctttgttgtc  gttgtttag  2040
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```

```

<210> 826
<211> 2109
<212> DNA
<213> Homo sapiens

```

```

<400> 826
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ctttgttgtc  gttgtttag  ttaaaggaat  ttcatttttt  aaaagaaatc  ttcgaagggtg  2040
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taagacttt                                     2109

```

```

<210> 827
<211> 394
<212> PRT
<213> Homo sapiens

```

```

<400> 827
Met Val Thr Met Glu Glu Leu Arg Glu Met Asp Cys Ser Val Leu Lys

```

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	20	25	30
Ser His Gly Thr Leu Gly Leu Pro Ser Gly Gly Lys Cys Leu Leu Leu			
	35	40	45
Asp Cys Arg Pro Phe Leu Ala His Ser Ala Gly Tyr Ile Leu Gly Ser			
	50	55	60
Val Asn Val Arg Cys Asn Thr Ile Val Arg Arg Arg Ala Lys Gly Ser			
	65	70	75
Val Ser Leu Glu Gln Ile Leu Pro Ala Glu Glu Glu Val Arg Ala Arg			
	85	90	95
Leu Arg Ser Gly Leu Tyr Ser Ala Val Ile Val Tyr Asp Glu Arg Ser			
	100	105	110
Pro Arg Ala Glu Ser Leu Arg Glu Asp Ser Thr Val Ser Leu Val Val			
	115	120	125
Gln Ala Leu Arg Arg Asn Ala Glu Arg Thr Asp Ile Cys Leu Leu Lys			
	130	135	140
Gly Gly Tyr Glu Arg Phe Ser Ser Glu Tyr Pro Glu Phe Cys Ser Lys			
	145	150	155
Thr Lys Ala Leu Ala Ala Ile Pro Pro Pro Val Pro Pro Ser Ala Thr			
	165	170	175
Glu Pro Leu Asp Leu Gly Cys Ser Ser Cys Gly Thr Pro Leu His Asp			
	180	185	190
Gln Gly Gly Pro Val Glu Ile Leu Pro Phe Leu Tyr Leu Gly Ser Ala			
	195	200	205
Tyr His Ala Ala Arg Arg Asp Met Leu Asp Ala Leu Gly Ile Thr Ala			
	210	215	220
Leu Leu Asn Val Ser Ser Asp Cys Pro Asn His Phe Glu Gly His Tyr			
	225	230	235
Gln Tyr Lys Cys Ile Pro Val Glu Asp Asn His Lys Ala Asp Ile Ser			
	245	250	255
Ser Trp Phe Met Glu Ala Ile Glu Tyr Ile Asp Ala Val Lys Asp Cys			
	260	265	270
Arg Gly Arg Val Leu Val His Cys Gln Ala Gly Ile Ser Arg Ser Ala			
	275	280	285
Thr Ile Cys Leu Ala Tyr Leu Met Met Lys Lys Arg Val Arg Leu Glu			
	290	295	300
Glu Ala Phe Glu Phe Val Lys Gln Arg Arg Ser Ile Ile Ser Pro Asn			
	305	310	315
Phe Ser Phe Met Gly Gln Leu Leu Gln Phe Glu Ser Gln Val Leu Ala			
	325	330	335
Thr Ser Cys Ala Ala Glu Ala Ala Ser Pro Ser Gly Pro Leu Arg Glu			
	340	345	350
Arg Gly Lys Thr Pro Ala Thr Pro Thr Ser Gln Phe Val Phe Ser Phe			
	355	360	365
Pro Val Ser Val Gly Val His Ser Ala Pro Ser Ser Leu Pro Tyr Leu			
	370	375	380
His Ser Pro Ile Thr Thr Ser Pro Ser Cys			
385	390		

&lt;210&gt; 828

&lt;211&gt; 453

&lt;212&gt; DNA

<213> Homo sapiens

<400> 828

```

ggatcatttta attgcatact ctatgaccac gcacatgtaa agcccccttct gcaaaagaga 60
cctaaaccag atgagaagta ttattcatcc agcatatggg gaccaacatg tgatggcctc 120
gatcggattg ttgagcgctg tgacctgcct gaaatgcatg tgggtgattg gatgctcttt 180
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gacttcccac ccgaagtaga ggaacaggat gccagcaccg tgectgtgtc ttgtgectgg 360
gagagtggga tgaaacgccg cagagcagcc tgtgcttcgg ctagtattaa tgtgtagata 420
gcactctggg agctgttaac tgcaagtta gct 453

```

<210> 829

<211> 452

<212> DNA

<213> Homo sapiens

<400> 829

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ctgggccacg aggacaccac cagcttggat cggcctcgcc gtgtggaata cttttagat 60
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aaacaatgaa accagagctt ctagggtgtg ggccctggata gtggttagatt caaagctcca 420
cccacctcat ccaggtaca tttgatgtgc ag 452

```

<210> 830

<211> 450

<212> DNA

<213> Homo sapiens

<400> 830

```

ctgaccccc tttgtccaca gctaagatgg cagcagaatg ctatgtcact atatacagaa 60
acaagacaac ctgaagctaa atggatgcc cctgcagagt caacagggtcc agcctcacag 120
tgcacgccct gagctacagc ctctcccaa aggcattctc cccacagcct caacgccgag 180
caaggagcat caagggtttg tctcggttgt tttgttcttt ttacaaacta tagatatata 240
cagttgaaaa ctcaggattt ctagccaata accatagtta ccaccacctt acaaataaaa 300
agaaaatgcc agaaacatct ttaaagtgc tgtcacacca acagcaaagt gcacagagtg 360
aggagaacac gagagtgcct tttcatttta aaaatgtttg gaaatatgta caactttgat 420
acagtttcag ggtgctccag acacccatgg 450

```

<210> 831

<211> 395

<212> DNA

<213> Homo sapiens

<400> 831

```

ctctaaaccc ctccacattc ccgcggtcct tcagactgcc cggagagcgc gctctgcctg 60
ccgcctgcct gctgccact gagggttccc agcaccatga gggcctggat cttctttctc 120
ctttgcctgg ccgggagggc cttggcagcc cctcagcaag aagcctgcc tgatgagaca 180
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caggtggaag taggagaatt tgatgatggg gcagaggaaa ccgaagagga ggtggtggcg 300
gaaaatccct gccagaacca ccactgcaaa cacggcaagg tgtgcgagct ggatgagaac 360

```

aacacccccca tgtgcgtgtg ccaggacccc accag

395

<210> 832

<211> 291

<212> DNA

<213> Homo sapiens

<400> 832

```
ctgactcttc catctgtgca ggttgactga ggtcattcct gagttgcagt atgttgagag 60
ggtaatatTT ctgtcttctc taactcccca tactcccttg tcttccactc tccacttagg 120
agttttttgt gagttatgtc cttgttgctt ttgcctcttt ttctttctag ccttgattgt 180
gccagaagac aatgtcccta ttcacacact ctttctgctt ttctgtgggc aggaacatgg 240
aaggggtgct gatggacgtg gactgtgaga gcgtctaccc cactgtgtag g 291
```

<210> 833

<211> 491

<212> DNA

<213> Homo sapiens

<400> 833

```
ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcaggtagct gctggccgcg 60
tacttggtgt tgctttgttt ggagggtgtg gtggtctcca ctccgcctt gacggggctg 120
ctatctgcct tccaggccac tgtcacggct tccgggtaga agtcacttat gagacacacc 180
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ttattatctt gataaatgac taccacaggg gactggcctg gcttctgttg ataccaacaa 480
gcagatacct g 491
```

<210> 834

<211> 308

<212> DNA

<213> Homo sapiens

<400> 834

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ctggtcgagg tccacgccgc ggtaggtgaa cttgcggaag gtccgcttct tcttctgctc 60
tacttctgcc gtgctggaga acatcgaaact gaacaagaag agtatgtatt cccgtgtgcc 120
agagtgccag gtcaccacat actattatgt tgggttcgca tatttgatga tgcgtcggtta 180
ccaggatgcc atccgggtct tcgccaacat cctcctctac atccagagga ccaagagcat 240
gttcagagg accacgtaca agtatgagat gattaacaag cagaatgagc agatgcatgc 300
gctgctgg 308
```

<210> 835

<211> 472

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 365, 402, 406

<223> n = A,T,C or G

<400> 835

```

ctgacatgtt aactgtgatg cataaaactc gatcttctga tggggagtaa gtgcagaagg 60
tagaaatctc cgcccccgcg gggcttatct gtactggtag ttcatgctgt ggtctgcgtt 120
tctgccatag ccgccttggt aggactggta ggagctggga gggccactgt agttctggcc 180
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tgagccgtag ctgttccgc cgcttcggcc tccactacca ctgtagttga atttgctctc 360
gtagntgtag tcggatccgc ccccgcccc gggagagttg tngganttcg agtaggagta 420
gctgccttgt ccatggttat agcctttctg cttgccctgt ggagggccat ag 472

```

<210> 836

<211> 354

<212> DNA

<213> Homo sapiens

<400> 836

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ccagtgcAAC cttcagatag acacatgggtg accagagccc gccaggttc tgcaggtggc 60
agtgtcgagc aagtgtAaga tgtctgtggg aaggagaagc tcctgaaatg aacgttctgc 120
aaacagaagg ctgaggggtc ttccaggcat gtccagtcac taggagctgc caccgggtggg 180
cttgagtgcc aggtctctagg ctttgtgcag aaagcaccgc gggcgggggg cggtaaggga 240
gagcaaaatg ggtctctctc aactgcagtc agtgctcctg ggaacacggt ctcacagaca 300
gcacatattc tacgtcacag ctctaggggt tcaaggactt agccatccga cagg 354

```

<210> 837

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 282

<223> n = A,T,C or G

<400> 837

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tttgatgagg aatctgccga gtgatggcgg ctccccaggg atgcgccgag ggagatggga 120
aacggggcgg atggcgccca gccagccct aactgccagc cacattgaag cggacattgg 180
caaccgggtc cccagccatg cgcagaaccg tgggtagcat gtgcttggtg gtgatgtcct 240
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318

```

<210> 838

<211> 277

<212> DNA

<213> Homo sapiens

<400> 838

```

ctgcgcgtcg ccaaagtGac aggcggtgcg gcctccaagc tctctaagat ccgagtcgtc 60
cggaaatcca ttgccgtgt tctcacagtt attaaccaga ctcagaaaga aaacctcagg 120
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atgcgccgcc ggctcaacaa gcacgaggag aacctgaaga ccaagaagca gcagcggaag 240
gagcggctgt acccgctgcg gaagtacgcg gtcaagg
277

```

<210> 839

<211> 276

<212> DNA  
 <213> Homo sapiens

<400> 839  
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 acagtggcta tcggcctaatt cttagccctg aagagg 276

<210> 840  
 <211> 453  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 387  
 <223> n = A,T,C or G

<400> 840  
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 taacaaaaga catgactggg aaagaagaca actaccggg cccggccgtg cgagccctct 180  
 gccagatcac tgatagcacc atgctgcagg ctattgagcg ctacatgaaa caagccattg 240  
 tggacaaggt gccagtgte tccagctctg ccctcgtgtc ttccttgac ctgctgaagt 300  
 gcagctttga cgtggtcaag cgctgggtga atgaggctca ggaggcagca tccagtata 360  
 acatcatggt ccagtaccac gcactanggc tcctgtacca tgtgcgtaag aatgaccgcc 420  
 tagccgtcaa taagatgac agcaaggctg cac 453

<210> 841  
 <211> 142  
 <212> DNA  
 <213> Homo sapiens

<400> 841  
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 gtacctatcc ttgtgtttct gatgcagtgg tagcattggt tcaagttctc tcctgctgtg 120  
 gtcagagttg cttcgatgtt gg 142

<210> 842  
 <211> 83  
 <212> DNA  
 <213> Homo sapiens

<400> 842  
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 ccaaacatat aactgaactc ccc 83

<210> 843  
 <211> 482  
 <212> DNA  
 <213> Homo sapiens

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agctgtccca	ggcgtcacaa	cccatactcc	caggctgggg	gagaaaggac	ctcctggaac	120
tgacttcttc	tgtcaggagg	actggtttcc	agccatacct	gttctggaag	ggagaggggc	180
tggaggcacc	cacaggcaca	agctgaaggc	agcagcttgg	ctaatactga	gcaggtagtg	240
gggcaaattc	ctgccctctc	tctctggcct	ctgggccgtt	tggtagtaat	cacccagggg	300
ctggtaaaagc	ccctcctctt	ggcacctcag	aatcacagtg	ttactgatca	gggatgtgag	360
gctgctgttg	ggggtggggg	gaggggaatg	ggcaggcaag	ccagttctct	gtcttctctt	420
gctaacttag	ggttttgagc	aggttggggg	tatggtgcct	gtcataccca	cctgccaccc	480
tg						482

<213> Homo sapiens

<223> n = A, T, C or G

ccagattttt	caagtttaaa	ggaggaaact	gcttattgga	aggaactttc	cttgaagtat	60
aagcaaagct	tccaggaagc	tcgggatgag	ctagttgaat	tccaggaagg	aagcagagaa	120
ttagaagcag	agttggaggc	acaattagta	caggctgaac	aaagaaatag	agacttgcag	180
gctgataacc	aaagactgaa	atatgaagcg	gaggcattaa	aggagaagct	agagcatcaa	240
tatgcacaga	gctataagca	ggtctcagt	ttagaagatg	atttaagtca	gactcgggcc	300
attaaggagc	agttgcataa	gtatgtgaga	gagctggagc	aggccaacga	cgacctggag	360
cgagccaaaa	gggcaacaat	agtttctactg	gaagactttt	gaacaaaggc	taaaccaggc	420
cattgaacga	aatgcatttt	tagaaagttg	aacttgatga	aaaaggaatc	tttgttggtc	480
tctgtacaga	ggttnaagga	tgaagcanga	gatttaaggc	aagaactagc	agtt	534

<213> Homo sapiens

tcgacctgtg	gcaaatgtgg	ctaccctgcc	aagcgcaaga	gaaagtataa	ctggagtgcc	60
aaggctaaaa	gacgaaatac	caccggaact	ggtcggatga	ggcacctaaa	aattgtatac	120
cgcagattca	ggcatggatt	ccgtgaagga	acaacaccta	aaccaagag	ggcag	175

<213> Homo sapiens

cgcggtggaca gttgcgaggg gtctgtgtga aggcaattgt cacgagcttc aatactgccg 60  
ccgtcccagg atgggagaac tgcgcagcag gaagggcact tctgaaagca cagtggagag 120  
atcgctggag cgggcgttct gggcaggagg aagcacagac ggcaggcagg gtggactgg 179

<211> 410



<212> DNA  
<213> Homo sapiens

<400> 847  
ccacccaaaac cagtcacaag acctggagtt gtctgtgcag atgtacgccc aagccgccct 60  
ggatggagac tcccagggat tttttaacct ggccctgcta atcgaggaag gtacgataat 120  
cccacacccat atcttgatt tcttggaat tgactcaact ctccattcta ataacatctc 180  
cattctccag gaactgtacg aaaggtgctg gagccacagt aacgaggagt ccttcagccc 240  
ctgctccttg gcctggcttt acctgcactt gcggcttctc tggggtgcta tcctgcactc 300  
agccctgatc tactttcttg gaacctttct gctatccata ttgatcgctt ggactgtgca 360  
gtatttccag tctgtctcag caagcgatcc ccctccaaga ccatcccagg 410

<210> 848  
<211> 557  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 508  
<223> n = A,T,C or G

<400> 848  
cacggggcccc cagccctgtg tcggccttgt ctgtctcagc tcaaccacag tctgacacca 60  
gagcccactt ccatcctctc tgggtgtgagg cacagcgagg gcagcatctg gaggagctct 120  
gcagccctcca cacctaccac gacctcccag ggctgggctc aggaaaaacc agccactgct 180  
ttacaggaca ggggggttgaa gctgagcccc gcctcacacc ccccccatg cactcaaaga 240  
ttggatttta cagctacttg caattcaaaa ttcagaagaa taaaaaatgg gaacatacag 300  
aactctaaaa gatagacatc agaaattggt aagttaagct ttttcaaaaa accagcaatt 360  
ccccagcgta gtcaaggggtg gacactgcac gctctggcat gatgggatgg cgaccgggca 420  
agctttcttc ctcgagatgc tctgtctgct gagagctatt gctttgttaa gatataaaaa 480  
gggggtttctt tttgtcttct tgtaaggngg acttcagct tttgattgaa agtcctaggg 540  
tgattctatt tctgctg 557

<210> 849  
<211> 525  
<212> DNA  
<213> Homo sapiens

<400> 849  
ctgatggttt ggaaatgaga gaactacagt ggtgaagaga ccaggaggca gctctcagtg 60  
aaaccaacat tgcggatgcc cttcgtgagc cttctcagtc ccagcaggaa gcccacaaca 120  
ctggcctccc cagcctgcct gctgacaaca cctaggetta ctttatctaa aatcagagtg 180  
taccagggtct gtagcagaaa ataatcaact aaatgtcagg gacctatgag tcatttaaaa 240  
caaaagagga agtgaaagcc attaggcaag ctatgtgctg ggctgctaac gtagcccttg 300  
cagggagggg tcaggagcgc gctgcagtga gccttgggtc tcgcaggccc agccctgctg 360  
caaggagcca gggcaccag gaaacatcag cacacacaca cacagggacc ctcccttcat 420  
gtcacttggt ttgctgcctt aaatggcttc ttgcacctta accctgatc ctggaagaag 480  
gcagagagac tggcccgtac agagacctgc aattctacgc aagct 525

<210> 850  
<211> 384  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 850

```
cctcttggag cacatccttt actgcattgt ggacagcgag tgtaagtcaa gggatgtgct 60
ccagagttac tttgacctcc tgggggagct gatgaagttc aacgttgatg cattcaagag 120
attcaataaa tatatcaaca ccgatgcaaa gttccaggta ttctgaagc agatcaacag 180
ctccctggtg gactccaaca tgctggtgcg ctgtgtcact ctgtccctgg accgatttga 240
aaaccagggtg gatatgaaag ttgccgaggt actgtctgaa tgccgcctgc tcgcctacat 300
atcccagggtg cccacgcaga tgtccttctt cttccgcctc atcaacatca tccacgtgca 360
gacgctgacc caggagaacg tcag 384
```

&lt;210&gt; 851

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 851

```
ctcaggaaaa accagccact gctttacagg acaggggggtt gaagctgagc cccgcctcac 60
acccaccccc atgcactcaa agattggatt ttacagctac ttgcaattca aaattcagaa 120
gaataaaaaa tgggaacata cagaactcta aaagatagac atcagaaatt gttaagttaa 180
gctttttcaa aagatcagca attccccagc gtagtcaagg gtggacactg cacgctctgg 240
catgatggga tggcgaccgg gcaagctttc ttctcgaga tgctctgctg cttgagagct 300
attgctttgt taagatatata aaagggggtt ctttttgtcc ttctgtaagg tggacttcca 360
gcttttgatt gaaagtccta gggtgattct atttctgctg tgatttatct gctgaaagct 420
cag 423
```

&lt;210&gt; 852

&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 852

```
ctgaaaacag tgggaggcca gatgctggca tcttcagac gggagcatag ccatggtcac 60
tctagccgat gtctctggtg gctctcaggc ggcaaggacc agatgcacca ctactgtcca 120
atcccagttt tacttagagc cacctccttt tttggggcca ttagtcctta tttcatgcca 180
gatttttact agcggctccc tgttcttcca aatcaattca tgaccgtaag taacatacca 240
tattccaaaa agagctcccc caagatgtgc cgcgatgata aaaaatttcc atcccaggat 300
cattctgtct gtatccatgg cgataatggc tttcagggca ttccctgctg tgaacgtgaa 360
catcggaagg aaaataatgg caagcctccc ttctgggatc ttagtgcaga cag 413
```

&lt;210&gt; 853

&lt;211&gt; 288

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 853

```
atctgtgagt tctgagaggc atttaggcca tgggacaggg aggatcctgt ctggccttca 60
gtttccatcc ccaggatcca cttggtctgt gagatgctag aactcccttt caacagaatt 120
cacttgtggc tattagagct ggaggcacc tttagccactt cattccctg atgggcccctg 180
acttttcccc ataactactg accagccttg acactccctt tgcaaaccat cccagcactg 240
caccaccaggc agccactcct agccttggcc tttggcatga gatggggg 288
```

&lt;210&gt; 854

&lt;211&gt; 427

&lt;212&gt; DNA

<213> Homo sapiens

<400> 854

```
ccaagtgaga tcagccctca agggcacatg ccaagggcag agcagcccat gtagacagct 60
tcggaggggca tgggggtgta gggagttcgg ggtagctcct cattaactat ttgttgggtg 120
agtaaagggg tgaggctcag tggcaggtac ctctgcaatg acaagctgcc tccccctctat 180
gtgttttagca tatgttatta gaacgtgtcc gacaccccta ccgctgccat ttggggccctt 240
taataaagcc aagtagagaa atctggcaat aaaaggcaaa tgtaagcatg ctttcttttaa 300
gacgcacatc aaatggtttt ctttaagtga atggaagagt ttgacagaga tacacctttg 360
taagaaaaca ttaagaatgc tggctgactg tggtggtctca cacctgtatt cccagcactt 420
tgggagg                                           427
```

<210> 855

<211> 311

<212> DNA

<213> Homo sapiens

<400> 855

```
ccagtattcc tggaggatat aacactgaca tcagcagggt tttcaatggc aacaattgca 60
cgagctgccg gcagaagctt ctcccaggtc ctcttgagat ttatgatata gatgccatca 120
cttttccttt tatagatgta ctgttccatc tggaagtcaa gattggtgcc acctaagtgg 180
gttcctgctg caaggaactt aaggacatcc tcctccttca tttgcaggac atcaagggct 240
ccggacattg tgaaagtttc cctttaagtt acgacgggaa tccagaacaa cgccgtatgg 300
acccctctgc a                                           311
```

<210> 856

<211> 328

<212> DNA

<213> Homo sapiens

<400> 856

```
cctatggaag tttggtgctt tgctccctgt gtttgcgaaa caggtatctc gtgatttcag 60
aaaagccttg ggagattaag tctttccggg agctgacctg cctggatctt tcctgttgca 120
agcttgagga tgagcatgaa cttctagaac atctcaccaa tgaagccctg tctagtgtaa 180
ctcagctcca cctgaaggat aattgtctat ctgatgctgg ggtgcggaag atgacagcac 240
cagttcgagt gatgaaaaga ggtatccaat gcctgcatct gtgatctcag ggttacatga 300
taagtctaataaatgttagat tctcaagg                                           328
```

<210> 857

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 473

<223> n = A,T,C or G

<400> 857

```
ctgaccggac cggtcatgcc cgctccggaac gtctataaga aggagaaagc tcgagtcac 60
actgaggaag agaagaattt caaagccttc gctagtctcc gtatggcccg tgccaacgcc 120
cggctcttcg gcatacgggc aaaaagagcc aaggaagccg cagaacagga tggtgaaaag 180
aaaaaataaa gcctctctgg ggacttgga tcaagtcggca gtcagtctgg gtctccacgt 240
ggtgtgtttc gtgggaacaa ctgggcctgg gatggggctt cactgctgtg acttcctcct 300
```

```

gccaggggat ttggggccttt cttgaaagac agtccaagcc ctggataatg ctttaactttc 360
tgtgttgaag cactgttggg tgtttgggta gtgactgatg taaaacgggt ttcttgtggg 420
gaggttacag aggctgactt cagagtggac ttgtgttttt tctttttaaa gangtaaggt 480
tgggctggtg ctcacagacc tc                                     502

```

```

<210> 858
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<400> 858
cggccgaggt ccttaatagt taagttacag ctaagaatgt catgtcttgg gttggaattt 60
tcatttttag caccgttaat gtattcactt aaatctatgt tagcaccttg tctccaggca 120
gaacaacaaa ccatccaaac attttaaaca ttgggggaaa cacgaagggg aggggttaaag 180
acagaatcca gtactgtgga aggagtggat ttagatcaca agatccttgt cgatatacct 240
ctgcttgatg ccgaagcagc cggcccactc atccagggcg atgtacttgt cattgtccag 300
gtcacaggtc tcgaaaaagc ggggtgtgca atgctccatg gggatgaggg gagcacgcag 360
tggagccagc tcggtgtggg agaggtagcc gtcaatgggg tgctgggtcca g          411

```

```

<210> 859
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<400> 859
aaatcacaga gggacttagt attccattaa tgcaaatgga aacattaagt tcatcatcag 60
atgataaaaag gaaaaaaaaa acctgatact catctcaaaa gacgcagaga agacatctgc 120
ataaatccag tacctattat tatttcaaat ttaaaaaactt cttctttttt aagagatagg 180
gtatcactat gttgccagc ctgatcttga actcttggcc tcagatgata ct          232

```

```

<210> 860
<211> 235
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 230
<223> n = A,T,C or G

```

```

<400> 860
tgcccagaaa ggaaggggct attgcctcct cccagccaag ttccctttcc tccctctccct 60
cctgtggatt ctcccatcag ccactctggt ctccctcttaa ggccagttga agatgggtccc 120
ttacagcttc ccaagttagg ttagtgatgt gaaatgctcc tgccctggc cctacctcct 180
tcctgtccc caccctgca taaggcagtt gttggttttc ttccccaatn ctttt          235

```

```

<210> 861
<211> 457
<212> DNA
<213> Homo sapiens

```

```

<400> 861
ccaaaggaaa gttggaaggc aactgacaga ttctgccttt taggtacttg aactggcagg 60
aaatgcatca aaagacttaa aggtaaagcg tattaccctt cgtcacttgc aacttgctat 120

```

```

tcgtggagat gaagaattgg attctctcat caaggctaca attgctgggt gtgggtatgtt 180
aacttctaac attttaaaaa atttcttcag aggaaggaat tttttgctgc ttttaattag 240
tttttccagg agaggaaatt taagtatat ttcaatgatg gaagtatggt tgtatcatga 300
aatttgattt atatgtataa ctcaatgaat ttttacctca tacttgagct gcatgttttt 360
aaagatacct ttcaagttga acagtataca ctttcttgggt ttcaaatact gtgatttttt 420
aaaaaatctt aagtagaatt aattcctgtc actcccc 457

```

<210> 862  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

```

<400> 862
ccaggtcatc accattggca atgagcgggt ccggtgtccg gaggcgctgt tccagccttc 60
cttcctgggt atggaatctt gcggcatcca cgagaccacc ttcaactcca tcatgaagtg 120
tgacgtggac atccgcaaag acctgtacgc caacacgggt ctgtcgggcg gcaccacat 180
gtatccgggc attgccgaca ggatgcagaa ggagatcacc gccctggcgc ccagcaccat 240
gaagatcaag atcatcgcac cccagagcgc caagtactcg gtgtggatcg gtggctccat 300
cctggcctca ctgtccacct tccagcagat gtggattagc aagcaggagt acgacgagtc 360
gggccccctc atcgtccacc gcaaattgctt ctaaaccggac tcagcagatg cgtagcattt 420
gctgcatggg ttaattgaga atagaaattt gccctggca aatgcacaca cctcatgcta 480
gcctcacgaa actggaataa gccctcgaaa agaaattgtc cttgaagctt gtatctgata 540
tcagcactgg attgtagaac t 561

```

<210> 863  
 <211> 291  
 <212> DNA  
 <213> Homo sapiens

```

<400> 863
ccatagctgt cccacctatg gttttaaaaa cagactgtaa cttgatcttc tgaaatcctt 60
ctogaaccac aactcgttct gttaaagaaa tcctaggaaa gaagtcctac tgatattgtc 120
gatagtctcc aaaagggtgag gaaggtaact gagttgaagg caactgggag gggctcttctg 180
caaactgagg accattggaa aactgtgcag aggcaaattc tgtcaacaag ataccagctc 240
cttcaattaa agctaggaga atgccacca ttgcggctga cccaaccatg g 291

```

<210> 864  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

```

<400> 864
ctgaactttt ccacctggag tccttgggaa taccggacgt gatcttcttt tatagggtcca 60
atgatgtgac ccagtcctgc agttctggga gatcaaccac catccgcgtc aggtgcagtc 120
cacagaaaac tgtccctgga ggtttgctgc tgccaggaaac gtgctcagat gggacctgtg 180
atggtgcaa cttccacttc ctgtgggaga gcgcggctgc ttgcccgctc tgctcagtgg 240
ctgactacca tgctatcgtc agcag 265

```

<210> 865  
 <211> 144  
 <212> DNA  
 <213> Homo sapiens

<400> 865

```

cctccacctg cgttttgatc tagatgagca tattgtccat ctcccacagc ttgctccggt 60
tccgcaggta cgcccgcccg tgcctgcgcg tcagcgacgc gatgtcctcg cgcattctcg 120
tgatgaccgg gacagaaac tgct                                     144

```

```

<210> 866
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<400> 866
ctggctgtaa gtagcttcat agcaccagtc tttgagaatg tcaagctctc cagaaatcat 60
ggcctccagg acattgggga tgatgtcgtt ctgcgactgt ttcagaaacc ggtccttgtc 120
aaaggccggg tccaccggga ggatctccgt gacacctcc gacatctctg tcttgagaa 180
caggccccc agcaagtcgg tgacctgtgc cgtaagggcc cgggatgcc ggatgaacgc 240
g                                                    241

```

```

<210> 867
<211> 364
<212> DNA
<213> Homo sapiens

```

```

<400> 867
cctgggcccc ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttattttact agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
ggctcactgc aacctctgcc tcctgggctg cagtgaattct cctgcgttca agtaattctc 180
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
ttcgtatttt tagtagaaat ggggtttcac catgttggcg aggctggctc cgaactcctg 300
acctcaagga tcctcctgcc tcggcctcct aaggtgctgg gattgcaggt gtgagccacc 360
acgt                                                    364

```

```

<210> 868
<211> 472
<212> DNA
<213> Homo sapiens

```

```

<400> 868
ccaccagtc acagatgtga ctggtaaggg atctagtaac agaggatgga gttgggcaga 60
atattatcct ggatgatatg caccagcac taggatacac ctttcattag aatgaagaga 120
acagacaaag ccctcagaaa agatacaaag gcagagacat tgattagaac attatctcat 180
aacagagggt gggccattac ccaccattat tgtaaaataa ctgtaactaa ccaaaacaca 240
tacaggcttc tttaatggag ttaataaaaac tatggcacat tgggaatcag gggcagagg 300
actgttccca gacggaaaac tgggataaag ggagccatgc tgacagggcc ttattccagt 360
ctagggtgtt agaaaggagc cctagcccag aaatgacagc aaatagccat aatcattatg 420
tggggctgaa ccagaggaag ccaggctgag ccaagaagct ggaagtatct tg 472

```

```

<210> 869
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<400> 869
cctttcttgt aagtgaagaa aaaggaatgc agcaaagaag agttcgacat tggagtcctt 60
agttccatca ggatcccatt cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120
gctgagatag gtgcaatgac ctacaagatt ttgtgttttc tagctgtcca ggaaaagcca 180

```

```
ttttcagtct tgctgacagt caaagagcaa gtgaaaccat ttccagccta aactacataa 240
aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc 300
aaactcattg tgacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat 360
ttacatgg                                     368
```

```
<210> 870
<211> 411
<212> DNA
<213> Homo sapiens
```

```
<400> 870
ggcgtgtcct tggacttaga gagtggggac gtccggcttc ggagcgggag tgttcgttgt 60
gccagcgact aaaaagagaa ttaaatatgg gtgatgttga gaaaggcaag aagattttta 120
ttatgaagtg ttcccagtg caccacgttg aaaaggagg caagcacaag actgggccaa 180
atctccatgg tctctttggg cgggagacag gtcaggcccc tggatactct tacacagccg 240
ccaataagaa caaaggcatc atctggggag aggatacact gatggagtat ttggagaatc 300
ccaagaagta catccctgga acaaaaatga tctttgtcgg cattaagaag aaggaagaaa 360
gggcagactt aatagcttat ctcaaaaaag ctactaatga gtaataattg g 411
```

```
<210> 871
<211> 385
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 13, 14, 15, 27, 108, 113, 159, 199, 215, 221, 229, 245, 258,
260, 277, 284, 293, 309, 311, 325, 339, 350, 374, 377
<223> n = A,T,C or G
```

```
<400> 871
tttttttttt tnnntttttt ttttttnaaa gattcacttt atttattcat tctcctccaa 60
cattagcata attaaagcca aggaggagga gggggggtga ggtgaaanat ganctggagg 120
accgcaatag gggtaggtcc cctgtggaaa aagggtcana ggccaaagga tgggaggggg 180
tcaggctgga actgagganc aggtgggggc acttntccct ntaaacactnt cccctgttga 240
agctntttgt gacgggcnan ctcaggccct gatgggngac ttencaggcg tanaactttgt 300
gtttctcgna ntctgctttg ctcanctgca ggggtgctgnt gaggetgtan ggtgctgtcc 360
ttgctgtcct gctntgngac actct                                     385
```

```
<210> 872
<211> 184
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 17
<223> n = A,T,C or G
```

```
<400> 872
cttccttcgg tctttantat ttttgattgt tatgtaaaac tcgcttttat tttaatattg 60
atgtcagtat ttcaactgct gtaaaattat aaacttttat acttgggtaa gtcccccagg 120
ggcgagttcc tcgctctggg atgcaggcat gcttctcacc gtgcagagct gcacttggcc 180
tcag                                     184
```

<210> 873  
 <211> 397  
 <212> DNA  
 <213> Homo sapiens

<400> 873  
 ctgtgggctc tgaatggcgt ccctttggct atccacgccg ccggcgacca ctgaattctg 60  
 tggttctaca acagggctctg gctgaccgaa ttgtcagaga cgtccaggaa ttcacgcata 120  
 accccaagtg gtacactgac agaggcattc cttacagacg tggctacctg ctttatgggc 180  
 cccctggttg cggaaagagc agttttatca cagccctggc tggggaactg gagcacagca 240  
 tctgcctgct gagcctcacg gactccagcc tctctgatga ccgactcaac cacctgctga 300  
 gcgtggcccc gcagcagagc ctggtactcc tggaggatgt ggatgctgct tttctcagtc 360  
 gagacttggc tgtggagaac ccagtaaagt accaagg 397

<210> 874  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<400> 874  
 ccagaagaac actatgccat ggttgccactg aattttgtgc ctactctagg gcaaacagaa 60  
 ttacaatcga aggagttcct atctatctgt aaagaagaga acatgaaatt ctggtggcag 120  
 aagcagcatt ttgaagaaat aaaaggttca ctgcag 156

<210> 875  
 <211> 512  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 504  
 <223> n = A,T,C or G

<400> 875  
 ccagcatagc gaaaacttgt ctctactaaa aatacaaaaa ttagtcaggc atggtggtgc 60  
 acgtctgtaa taccagcttc tcaggaggct gaggcacgag gatcacttga acccaggagg 120  
 aggaggttgc agtgagctga gatcatgcca gggcaacaga atgagacttt gtttaaaaaa 180  
 aaaaaaagtg acttgattta agggaaaaaa tgactggcta tattcagtca gatatggcaa 240  
 agagtctcaa ggtgttaatg tgaatgatta aggtcttggg gggggtgtcc cctatcagac 300  
 tacaggtgtt tagaggcaca gaaaaagggtg cagttgggtt cttaatgtga aatgatgaga 360  
 agcacaactc cagtgtgtct ctttgtgtag aatgtcagca gacacccct gctagatgtg 420  
 ctggatcatg ggaaagcatt tccatttgtt aatagattgt tcagaagttt taatttatga 480  
 tgggtgtggt ggctcatgcc tgtngtccca gc 512

<210> 876  
 <211> 199  
 <212> DNA  
 <213> Homo sapiens

<400> 876  
 cctgtgccgg gccccagggc tggcagccac cagctcctct tccaggcatg ggggacaccc 60  
 tgacaggatc cggaagtctc catttaccba aaaatgcaag agccatgatc agtcatggcg 120



```
<210> 877
<211> 486
<212> DNA
<213> Homo sapiens
```

```
<210> 878
<211> 363
<212> DNA
<213> Homo sapiens
```

```
<210> 879
<211> 365
<212> DNA
<213> Homo sapiens
```

$$\begin{array}{ll} \langle 210 \rangle & 880 \\ \langle 211 \rangle & 431 \end{array}$$

<212> DNA  
<213> Homo sapiens

<400> 880  
ccatctcccc tcaccccaac ctggataaaa tgttacacta cccactaata taaccactga 60  
cacacaaacc aagctccttc cagtttaaca ttgaacatca atctacattt ccagtgaatg 120  
agctaaactt atgagcaggc cattcaactt ttcatgatac atttagtgct cagaaatggg 180  
tgattccatt agcctgccct atagctcagg tggcccaaga tggagcctat catcttcctt 240  
ggggtgtttg gtgtttccaa gtaggagcat aaaaaggata ccgtccccta cccaccacc 300  
ccatcccaca taccctcact ggcattccagg agaccagcag caggctcaag accccaaatg 360  
ttgggcacca caaataatgt gatatgtgcc aggagcacgg ggggtagggg tgaaagagaa 420  
aaacaataag g 431

<210> 881  
<211> 335  
<212> DNA  
<213> Homo sapiens

<400> 881  
ccacagaggt ggtattacaa aatatacaaa gtggtttctt tctttacatt tcatagaaga 60  
agcctgcctc atttccaaat gagagcacta gaagcacaaa tcatgcagac catttactat 120  
ataacttatg aaaaatgctg tacagggctg tgactataga tatagagtat ttggctctgt 180  
ttgggaattg atatctacaa gggggagggt caggggagga ctgtctgata tcttgacttg 240  
ctgggatggg ggagaagctg ggatggggga ggccccaatc ttgctgcacg gctacacca 300  
ctctctcttt ctagataag gctggagcgc actgg 335

<210> 882  
<211> 353  
<212> DNA  
<213> Homo sapiens

<400> 882  
atgcactcaa agattggatt ttacagctac ttgcaattca aaattcagaa gaataaaaaa 60  
tgggaaacata cagaactcta aaagatagac atcagaaatt gttaagttaa gctttttcaa 120  
aaaatcagca attccccagc gtagtcaagg gtggacactg cacgctctgg catgatggga 180  
tggcgaccgg gcaagctttc ttctcgaga tgctctgctg cttgagagct attgctttgt 240  
taagatataa aaaggggttt ctttttgtct ttctgtaagg tggacttcca gcttttgatt 300  
gaaagtecta ggggtgattct atttctgctg tgatttatct gctgaaagct cag 353

<210> 883  
<211> 193  
<212> DNA  
<213> Homo sapiens

<400> 883  
ctggcagaga agaatggcta cgtgactgtc agtgagatca aagccagtct taaatgggag 60  
accgagcgag cgcggcaagt gccggaacac ctgctgaagg aagggttggc gtggctggac 120  
ttacaggccc caggggaggc ccactactgg ctgccagctc tctcactga cctctactcc 180  
caggagatta cag 193

<210> 884  
<211> 461  
<212> DNA  
<213> Homo sapiens

ctgaagaacc	coatcagcgg	gctgttagaa	tatgccagct	tcgctagtca	aacctgtgag	60
ttcaacatga	tagagcagag	tggaccaccc	catgaacctc	ggttaagagac	caccaggga	120
ctgtacctag	ggttggggtc	aggtgctttt	gctcctgacg	cagtcttggc	tgatttgtga	180
gcagtgcctgt	ttggtggcgc	ctatcttttc	ctccttcctc	tctgcctttt	agctaaattc	240
cccttgattg	gcoctttctc	cagatattga	gcagggaata	tagaccttgg	accagccaga	300
atcttggtcg	aacaaggggg	aggttgactc	tgttggctgt	aatgaagctt	ctttagaaat	360
gattggtttt	ggccgtacgc	ggtggctcat	gcctgtaatc	ccagcacttt	ttgaggccga	420
ggcaggcata	tcacgaagtc	aggagtttga	gaccagcctg	g		461

<213> Homo sapiens

<223> n = A, T, C or G

ctgcaatgct	tcancaact	tcagcaccga	ggctgggcat	gaggggtccg	tcaccaccac	60
atcaaatacc	octaaagcaa	tatctttgtt	atgggcactt	gaatggtgct	gcttcacaga	120
ggctgcacca	ccagtcattga	ggattctcaga	ccagagctcc	aggaagtctt	gctgttggtc	180
tgataccaag	agtaccttca	gattctggaa	aggattttca	cgggggttgc	agtccagaat	240
tctttgctcc	tcaaggctgt	accag				266

<213> Homo sapiens

cgcgtggttt	cogattgttt	gatagtattt	actggagaga	tcatagaaac	gactgtgaac	60
cgatgtcaca	ccaggaaggt	tgttgagcat	ttcttcaaca	tcttcaattg	tttcctttgt	120
aacctgtagg	tcccogatgt	ttaatttttag	agctccaatt	gctgttttac	acaggatcac	180
tgctcatca	ttacttttca	ccttctcacg	agtcttttcc	agaaaagtaa	gagccacatt	240
aggatcagtc	atctgtctaa	ctacatgaag	aatgatttcc	acgagggaca	aagggttcac	300
cctgtgttca	aattcactga	taaagttttc	ataaagctta	atgagaccat	ctccttgggc	360
aaagcacgga	tctgcacaa	aatcaagcac	ctgaagtgtc	ag		402

<213> Homo sapiens

cCaaagcgag	agcattggca	gtgaattgca	gacactcttc	cttggtcatg	ccttcccggg	60
aggtagcattc	aacatagcca	tagatgtagg	agctcccgga	gcctccaatg	gcaaaggact	120
gccttaccat	cataccccc	ataggcactg	agtacacctg	ccctcctct	tgaggggtcc	180
agcctgcgat	gatgatgtcc	gccatcaggt	cttcccggta	tccgtaaacac	atctccttaa	240
agaggctggc	tgtgtgtgg	accagtggag	gctcattcga	ttcaatgctg	tggaaaccga	300
gctggtaggt	gcagacatca	gctaactgct	gggtatcagc	aq		342

<210> 888  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

<400> 888  
 cgcgtcggcc aaggetgctg ctgttgctcc tccaaagaag gttggcttca aggccgtgtc 60  
 cagggaccca cgagcagagg cactgggggg caagggatct ccaagggggc aagggatccc 120  
 taaagggggg agctcacagg tgaggggggt tagggcccct ctagggagcg cctgaggcca 180  
 tacattcaag agtgtccctg gtgaggccca ggaagagcc aggactgg 228

<210> 889  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<400> 889  
 ttggcttttc tccccctctc atcctcctct cccctttcct cactgaaggc tgtgagttgc 60  
 tttcaatgtg acaacactat gatgtcattt ggaaggattt gccaggacag actgattctg 120  
 agtcctgggt gccgtatgtg tatgcggcag tgttgtcagg cgatcttggt tgaagctcta 180  
 tgttgccata attaccatca agtacacact gttggcaaaa ggctaacacc tgactttagg 240  
 aaatgctgat ttgagaacaa aaggaaaggt cttttttcac tgcttaaagt ggggtcactt 300  
 tgataccttt gcggtcatgt ctgtgtctga tgagtgtaga atctctggat gtgcactgtc 360  
 agtcatgtgt ccaccagg 378

<210> 890  
 <211> 215  
 <212> DNA  
 <213> Homo sapiens

<400> 890  
 ccatttttga gtgtgtccat tgggtagcaa tgtggaaacc accagggcct ttgtggagaa 60  
 aatggagggg gttgagggag tcccaggagg ggcttatttg agggcctttg ccacttgctc 120  
 ataggcgagc tcgatctcct catcatctgg acaggtggaa gcgaattctt cccgggcgta 180  
 ggcattgctc aagtaccgat gcactccccg gaagg 215

<210> 891  
 <211> 412  
 <212> DNA  
 <213> Homo sapiens

<400> 891  
 ctggtcaagt tcaacagagc cttggctgac cattctatgg ctcaggcacc tcggctcatt 60  
 gatggcattg ttcttaccaa atttgatacc attgatgaca aggtgggagc tgctattttc 120  
 atgacgtaca tcacaagcaa acccatcgctc tttgtgggca ccggccagac ctactgtgac 180  
 ctacgcagcc tcaatgcaa ggctgtgggt gctgccctca tgaaggctta acgtggctct 240  
 tgcccaatac caaatcgccg ctttccccac aagcccttct tcctgtatca agaattgtgt 300  
 ttagagtatg tgagcaacct gtcttcagt tagtacaaag gcagagttag ggggcttgtg 360  
 gtccttcca accccactcc ccgttcagca cagccgcat ctgcaaggaa gg 412

<210> 892  
 <211> 472  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 85, 169, 171, 181, 201

<223> n = A,T,C or G

<400> 892

```

tttttttttt tttttttttt ttaattacta ccttttattc taatgtgaac catggccctg 60
aaagctgata acaagcttgg ctgancagag ggaactaggg gtcggcagaa aggattatgg 120
gtggaaaaca ttggctcttc ctgggggagt gatgctgggg aaagggaana nagtggctca 180
ncctgcaggt aaataggcta naaaagccaa ggccaaaggc tggaggggag aggacagtca 240
gcatgtccag cctgggggtct ggggtgtaggg ttatcccttc tccctgtgcc ttcccatctc 300
gtccatgagc ctaggctcttg gagccttggtg ttggaggctg ctgtgatgtc aggaacgggg 360
atctgtctag cttttggcca ctccctggga cctcacgccc ctgttgacag atggagattg 420
ggcagcaggg ccttgctgcg ttgttatctg ctgttccgac ttggtttgtc tt 472

```

<210> 893

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 436, 447, 449

<223> n = A,T,C or G

<400> 893

```

caaagattca ctttatttat tcattctcct ccaacattag cataattaaa gccaaaggagg 60
aggagggggg tgaggtgaaa gatgagctgg aggaccgcaa taggggtagg tcccctgtgg 120
aaaaagggtc agaggccaaa ggatgggagg gggtcaggct ggaactgagg agcaggtggg 180
ggcacttctc cctctaacac tctcccctgt tgaagctctt tgtgacgggc gagctcaggc 240
cctgatgggt gacttcgcag gcgtagactt tgtgtttctc gtagtctget ttgctcagcg 300
tcagggtgct gctgaggctg taggtgctgt ccttgctgtc ctgctctgtg acactctcct 360
gggagttacc cgattggagg gcgttatcca ccttccactg tactttggcc tctctgggat 420
agaagttatt cagcangcac acaacanang cagtttccag atttcaactg ctcatca 477

```

<210> 894

<211> 289

<212> DNA

<213> Homo sapiens

<400> 894

```

ctgtcttatg gctatgatga gaaatcaacc ggaggaattt ccgtgcctgg ccccatgggt 60
ccctctggtc ctgctggtct ccttggtccc cctgggtcac ctggtcccca aggcttccaa 120
gggtccctctg gtgagcctgg cgagcctgga gcttcaggtc ccatgggtcc ccgaggtccc 180
ccaggtcccc ctggaaagaa tggagatgat ggggaagctg gaaaacctgg tcgtcctggg 240
gagcgtgggc ctctgtgggc tcagagtgtc cgaggattgc ccggaacag 289

```

<210> 895

<211> 179

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 14

<223> n = A,T,C or G

<400> 895

```
ctggatgggt ccanacaaag tggaatccct ggaaccttta actgagcagt gaagggtcagt 60
gcctcagagc ctgagagatg aacaggacca gagagagagg tgggcaggca ggcacaagggt 120
tatgtcttcc tcagactcgg aacctgtgtc ttctccacca tccagacgtt cagctacag 179
```

<210> 896

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 367

<223> n = A,T,C or G

<400> 896

```
ccactcactg ctgggaccca ggcacctccc ttctccatcc tctctggatt gtcagtaatg 60
tcttgaaca gaagcctgtg ggatggcctt gggcacggag aagccctggg gtcagtgtcg 120
tgcacggatg gcggcagtgt tgaaccagg aggctgaacc cggcccacca cgggaagatga 180
gtgcatggca accgcctgcc ttacagtcgc tccacttggg aaccccaagg tctgggctgt 240
totaggtatt gcttcacgtg ccccagcaag cccttaacaa gagggcctgg ttccctgaag 300
aaccaatccc aggaaggggc cttgatccct ccgccttget gagagtgaac cctcgtctct 360
cctcaenctc catttcattt ctgggaattg gggcttagtt tcgaaccttt ggcaaggctg 420
ttcttactaa tgcccagcc cctttacccc tctccctata ggttacacag gggagaccag 480
ggcctcggca gaagactgct gccacacttc cgaatcattc tgcttgccaa ataggtcac 540
ttcaccagtt gactgac 557
```

<210> 897

<211> 495

<212> DNA

<213> Homo sapiens

<400> 897

```
ctggaatctc ctttgcaatc ccatctgata agattaataaa gttcctcacg gagtcccatg 60
accgacaggc caaaggaaga gccatcacca agaagaagta tattggtatc cgaatgatgt 120
cactcacgtc cagcaaagcc aaagagctga aggaccggca ccgggacttc ccagacgtga 180
tctcaggagc gtatataatt gaagtaattc ctgatacccc agcagaagct ggtgggtctca 240
aggaaaacga cgtcataatc agcatcaatg gacagtcctg ggtctccgcc aatgatgtca 300
gcgacgtcat taaaagggaa agcaccctga acatggtggt ccgcaggggt aatgaagata 360
tcatgatcac agtgattccc gaagaaattg acccataggc agaggcatga gctggacttc 420
atgtttccct caaagactct cccgtggatg acggatgagg actctgggct gctggaatag 480
gacactcaag acttt 495
```

<210> 898

<211> 406

<212> DNA

<213> Homo sapiens

<400> 898

```

ccacgactgc atgcccgcgc ccgccaggtg atacctccgc cggtgaccca ggggctctgc 60
gacacaggga gtctgcatgt ctaagtgcta gacatgctca gctttgtgga tacgcggact 120
ttgttgctgc ttgcagtaac cttatgccta gcaacatgcc aatctttaca agaggaaacc 180
gtaagaaagg gccagccgg agatagagga ccacgtggag aaaggggtcc accaggcccc 240
ccaggcagag atgggtgaaga tggccccaca ggccctcctg gtccacctgg tctcctgggc 300
ccccctggtc tcgggtggga ctttgctgct cagtatgacg gaaaaggagt tggacttggc 360
cccgaccaa tgggcttaat gggacctaga ggccacctg gtgcag 406

```

<210> 899

<211> 277

<212> DNA

<213> Homo sapiens

<400> 899

```

cctaagagtc attaaaaaat tctccctttg taacctcagt gctggggact gaggcgagcc 60
ccctcaggtc gctggagtgc accagtcctg gggaagaggt gcaggagaag ctgtgttttt 120
tatctccaca cgcagtatga agataaaatt acatagtatt acctagacat agacagtatt 180
acctaggtag atgcactgct cacctgcacc cttcccagct ctcatTTTTg ttaggtgatt 240
tgggataggg atagtgtttt ggggtatggg gggagtg 277

```

<210> 900

<211> 389

<212> DNA

<213> Homo sapiens

<400> 900

```

ctgttttgaa atatttactg ttattaaaac ttgcttcaag ggaaattgtg aatatatttc 60
catatacaag cactagtaac agtaagtggc cctgtcatcc actaactcag gcaaagtaaa 120
gaatggcatt tttgaaggac attttacctc cccatatgat ttgattggct aggactttct 180
tctgtaaagt catacctttt cacatcttaa gtttttacat ttgccatttt ccaaactctca 240
attttgggca agaacgatat agtcacaact atggggctgc tttcaaaagc ggggctccat 300
ttctactgtc agatcaatgt ggtgctgtaa ccatcttttt atccctacct tcaagaacct 360
ccttatatga agcctgtctt tatccatca 389

```

<210> 901

<211> 453

<212> DNA

<213> Homo sapiens

<400> 901

```

ctggagacac ccacttgggt ggagaagatt ttgacaaccg aatggtcaac catTTtattg 60
ctgagtttaa gcgcaagcat aagaaggaca tcagtgaag caagagagct gtaagacgcc 120
tcogtactgc ttgtgaacgt gctaagcgta ccctctcttc cagcaccag gccagtattg 180
agatcgattc tctctatgaa ggaatcgact tctatacctc cattaccctg gcccgatttg 240
aagaactgaa tgctgacctg ttccgtggca ccctggaccc agtagagaaa gcccttcgag 300
atgccaaact agacaagtca cagattcatg atattgtcct ggttggtggt tctactcgta 360
tccccaaagt tcagaagctt ctccaagact tcttcaatgg aaaagaactg aataagagca 420
tcaaccctga tgaagctggt gcttatgggt cag 453

```

<210> 902

<211> 293

<212> DNA

<213> Homo sapiens

```
<210> 903
<211> 228
<212> DNA
<213> Homo sapiens
```

```
<210> 904
<211> 388
<212> DNA
<213> Homo sapiens
```

```
<210> 905
<211> 272
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 14
<223> n = A,T,C or G
```

```
<210> 906
<211> 525
<212> DNA
<213> Homo sapiens
```



&lt;400&gt; 906

```

ctgtgcaccc gagtgtcctt tcccccttaa gctggcacat aggagcaaaa gttcactaac 60
cctgcagtgg aaggcaccaa ttgacaacgg ttcaaaaatc accaactacc ttttagagtg 120
ggatgagggg aaagaaatag tggtttcaga cagtgccttc tcgggagcca gaagcactgc 180
aagttgacaa agctttgtcc ggcaatggg tacacattca ggctggccgc tcgaaacgac 240
attggtacca gtggttatag ccaagaggtg gtgtgctaca cattaggaaa tatccctcag 300
atgccttctg caccaaggct ggctcgagct ggcacacat gggtcacgtt gcagtggagt 360
aagccagaag gctgttcacc cgaggaagt atcacctaca ccttggaat tcaggaggat 420
gaaaatgata accttttcca cccaaaatac actggagagg atttaacctg tactgtgaaa 480
aatctcaaaa gaagcacaca gtataaatc aggtgactg cttct 525

```

&lt;210&gt; 907

&lt;211&gt; 365

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 907

```

gtaaatttta agtctttcag ttttatagat acggaaaaca agggtgactc tttaccacag 60
gatgaataaa gaactaagta atatgggaaa tgcagcaatt tctggactag ctgagccgat 120
tccttcctgt gagcacactg taagctttca agttctctgg gcaggaatta cagcacctgt 180
cccctgcaat ggccctgctg tgtgatgctc atcgcttccc ttcgtgctgg agcagtcctc 240
caggtgtcca tctcctatct tttgtttcca atcttctgtg agttccagct agcaggcttt 300
acatctgggg aaaggaaaac caggggtttt agctctgttc tctgctccca tccttcgctc 360
accag 365

```

&lt;210&gt; 908

&lt;211&gt; 608

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 594

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 908

```

cggaggtgcc tcagccatgg catggatccc tctcttctc ggcgctcctg cttactgcac 60
aggacgtgcg gcctcctttg aggtgaccca gccaccttca atgtccgtgt ccccaggaca 120
gacagccaag atcacctgca ctggagatag gttgggggat gaatatgttt gctggtatca 180
acagaagcca ggccagtccc ctgtattgat aatatatttg gataacaagc ggccctcggg 240
gatccctgac cgattctctg cctacgcctc tgggaacaca gccactctga tcatcagcgg 300
ggcccaagtt atggatgagg cttattatta ctgtcaggcg tgggacggca gaactgtggg 360
gttcggcgaa gggaccaacc tgaccgtcct aggtcagccc aaggctgccc cctcggtcac 420
tctgttcccg ccctcctctg aggagcttca agccaacaag gccacactgg tgtgtctcat 480
aagtgacttc taccggggag ccgtgacagt ggctggaag gcagatagca gccccgtcaa 540
ggcgggagtg gagaccacca caccctccaa acaaagcaac aacaagtacg cggnacgacg 600
ctatctga 608

```

&lt;210&gt; 909

&lt;211&gt; 513

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 909

```

ctgggtctcaa actcctcacc tcaactgac cgccacactt ggctcccaa agtgetggga 60
ttataggtgt gagccaccgt gcccaaagtt aagtattttt gatcaagtgt ttgtgttttt 120
gtgcaaggca tttgtggctc tgtcatagca gaggaaaaca aaacatgcct atcaaataaa 180
tcaagtccga cctcttctca tattgagcaa cttagaggtct aggaacattt cccctacctg 240
tcatttctcat ctggcatacc aggtgtacat actccttctt attctcctct gttaccaaga 300
tggtggcccc attgggtttg aggtcacgaa ctccacaaac tccaaactct tggacctcag 360
tgctgaagggt gaggtcatag cctagtgtgg agacatcatt ttccagcaga taaaccagac 420
cttggtagaa gtggaatatc tcactctcca tatctgtata tctgactgac ttgccaaga 480
tgtgtttgta aaaggatcga gtaaagtagc act 513

```

<210> 910

<211> 272

<212> DNA

<213> Homo sapiens

<400> 910

```

ccggagccca cgggtggcat ggctgccaga gcgtctgtga tgctggggct ggtcctggcc 60
ttgtgttctt ccagctctgc tgaggagtac gtgggcctgt ctgcaaacca gtgtgccgtg 120
ccagccaagg acagggtgga ctgcggctac ccccatgtca cccccaagga gtgcaacaac 180
cgggggtgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gcccctgcag 240
gaagcagaat gcaccttctg aggcacctcc ag 272

```

<210> 911

<211> 263

<212> DNA

<213> Homo sapiens

<400> 911

```

cctgcaggta caaattgacc aggtctgttga cggctgcctc cacgtcgggtg gaataattct 60
gacgaatctg ggagctcatg gttggttggc aagaaggagc taaccacaaa aacggtgctg 120
gcaggctcca gaagcaggag atggccgaga agatggtccc ggaggttgca agcggagagg 180
aaatcggagg gcggtcggag gctggaagag agtccccgga tctgttccgt ccaaactg 240
ttgaagcaag agacagaccc gcg 263

```

<210> 912

<211> 470

<212> DNA

<213> Homo sapiens

<400> 912

```

ctgtgagcac cagcccaacc ctacctcttt aaaaagaaaa aacacaagtc cactctgaag 60
tcagcctctg taacctcccc acaagaaaac cgttttacat cagtcactaa ccaaacaacc 120
aacagtgtct caacacagaa agtaaagcat tatccagggc ttggactgtc tttcaagaaa 180
gccccaaatc ccctggcagg aggaagtcac agcagtgaag ccccatccca ggcccagttg 240
ttcccacgaa acacaccacg tggagaccca gcatgactgc cgactgattc caagtcccca 300
ggagggtctt attttttctt ttcaacatcc tgttctgcgg ctcccttggc actttttgcc 360
cgtatgccga agagccgggc gttggcacgg gccatacgga gactagcgaa ggctttgaaa 420
ttcttctctt cctcagtgat gactcgagct ttctccttct tatagacgtt 470

```

<210> 913

<211> 426

<212> DNA

<213> Homo sapiens

```

<400> 913
cctggacacc ataaggtctg tgggctttca gaattgtgtt aggggggcag gagtggcagg 60
ttcctgaatc tcggtcaata tagtaaccag caggacaaga ggtgcaggag gagccacat 120
cagaggcttc tagggcacag ggacggcagt aggaggccac gccattcata acattgggtga 180
cattgatgga gtagatcttg gcaacgtcat tgggtgtactt cctgcttgcc tcatgaaaag 240
tggtcctctg gaaggcccag gtgaggctcg tggtagtggt ctctcaatg atgtaggtat 300
aggactgttt gcctttggaa cctttccacg tctccacagg agtggttggt ctagaattca 360
caccacccat gaagtagagc tcacagttca cagaacagag ggtctcaaag acaaattgtga 420
ttctgg                                     426

```

```

<210> 914
<211> 252
<212> DNA
<213> Homo sapiens

```

```

<400> 914
ccaagctggg ggtgcgcaca tgtggaagaa ctggaggccc ggtgtcatga gcagaggctg 60
taccctagat gcccgcccca gtgccagcca acccaagaca ggagaaagag tttggcagtt 120
tgcctctga ggaatacatg cctggccctc ctgtgaggtg aggcggtagg ggggaaggcg 180
caggctccga agtctgaggg cttgccggag ggggagtttc tgagcctttt gcatgggtgc 240
atgccccctg cc                                     252

```

```

<210> 915
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 915
ccactgggac tttggcttcc tgatgccgat tgtggatttc tgctgcaaag acagtgatgt 60
tgagccaggc tgtttctct ctatccagag gttttgtagt ttttaataaaa ccattcctctg 120
gattaatagt gaaaaatctg tcgaggtcag tgtgacgac gatggaatac cttatcgggc 180
tgttggcagc atcagggtct ttggcatgca ctctcccaac cacggtgccg gcag          234

```

```

<210> 916
<211> 366
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 338
<223> n = A,T,C or G

```

```

<400> 916
ccattcagtc tcanttcaga aaattccaga agaagaaggc tgggtctcag tcttagtggg 60
agaacccct cctagtccac ctgaaaacac caaattcaac catcatctgt caagaaatta 120
aaagaacaac accctagaga gaagtcattc acacacaatc cacacacgca tagcaaacct 180
ccaatgcatt tacagaaacc tgtgatattt atacccttgt aggaaggat agacaatgga 240
attgtgagta gcttaatctc tatgtttctc tccattttca ttctctctgc aactattttc 300
cttgatgttg taataaaatg aagttacgat gagtgatnaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaa                                     366

```

```

<210> 917
<211> 492

```

<212> DNA

<213> Homo sapiens

<400> 917

```
ggcacagcga gggcagcatc tggaggagct ctgcagcctc cacacctacc acgacctccc 60
agggctgagc tcaggaaaaa ccagccactg ctttacagga caggggggttg aagctgagcc 120
ccgcctcaca cccaccccca tgcactcaaa gattggattt tacagctact tgcaattcaa 180
aattcagaag aataaaaaat gggaacatac agaactctaa aagatagaca tcagaaattg 240
ttaagttaag ctttttcaaa aaatcagcaa ttccccagcg tagtcaaggg tggacactgc 300
acgctctggc atgatgggat ggcgaccggg caagctttct tcctcgagat gctctgctgc 360
ttgagagcta ttgctttgtt aagatataaa aaggggtttc tttttgtctt tctgtaaggt 420
ggtcttccag cttttgattg aaagtcctag ggtgattcta tttctgctgt gatttatctg 480
ctgaaagctc ag                                     492
```

<210> 918

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 527

<223> n = A,T,C or G

<400> 918

```
ctgctcctgg gtaggcgtgc gggccatata gtaggggtag gatactagcc gctcgccgcc 60
gttcagattt gctcccagca cgaaggggtt cttctccatc caggcaatga tggcccggac 120
ctccgtggat accgtggcat ctggcgaaag gtagcggtca gggatgggca agttattgtt 180
ggggaccggg taggggaccc atttctctc ctcagctccc cagagcacag agttgagatc 240
cgggaaatct tcaaagatgt caaagccctc ctcagtccac agtcccagcg ccagttccc 300
aaactctgag cccatctgcg ctgccacctc gtagccatca gggttcagtg agggcaccag 360
gtggatgcgt gtgtcctgca ccaggctgcg cacacgtggg ttcccatcgc ggtactctcg 420
gcacaggtag tgcatgagca gcagcaacag ctctcggccc agcacctcgt tgccatggat 480
cccagcagtg tagcggaact cgggctcccc cagttcatgc tccccanggt tgtctgagat 540
ctccatggca tagatct                                     557
```

<210> 919

<211> 407

<212> DNA

<213> Homo sapiens

<400> 919

```
ccttatgaat acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60
tccgggcctc cctccaagga gattctgacc ctgaagcagg tccaggagtt cctgaaggat 120
ggagacgatg tcatcatcat cggggtcttt aagggggaga gtgaccacag ctaccagcaa 180
taccaggatg ccgctaacaa cctgagagaa gattacaaat ttcaccacac tttcatcaca 240
gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaga 300
ttccagtcta agtatgagcc ccggagcagc atgatggacg tccagggtc caccacggac 360
tcggccatca aggacttcgt gctgaagtac gccctgcccc tggttgg                                     407
```

<210> 920

<211> 340

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 14, 15, 304, 318, 319, 325  
 <223> n = A,T,C or G

<400> 920  
 cctcttgggc agcnnagggc cctgcctctg tttcatgatg catgggtcat ttgtcttggg 60  
 tgtctatcc catatggaga agaaaggggc tctaagttct ggctcttctt tctttgggg 120  
 tctctgtacc tgaggaaacc aggccttggg tgactttgca gatctgctca ccctcgggtga 180  
 gcaacagtgt cagccatgca agcaggacag aatggtgact ggggtgccctt ggtgagctgt 240  
 gtatttctta ggaggtagaa aactgtggga aactgtggct aataaaaact aagtgtgagc 300  
 gtcnaaaaaa aaaaaaanna aaaanaaaaa aagcttgtag 340

<210> 921  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

<400> 921  
 ggaaaaataa ttttattcct caaatgatca gcacattcag aagcaggaca gaggagctct 60  
 gatgacatct ctgggggact caaagcggcc ctcatcttct ggtattttcc cagggtgattc 120  
 tcttccaacc tgtgagtcct gctctctttc ctcccatctg aagtttgaga catcctctgc 180  
 cacaaggaaa gccaccaata ccagcccaaa gagccaccag agaggaacca aaccacatgc 240  
 atcaagttat aggaaggatg caagaaggga aattaggaag gaaagggagg agtttagttg 300  
 gcattctggg gcatgctaac atgagggcga tggctctctt ccaagtcgct ggacatatcc 360  
 cttttctttc cagggtgctcc aactccaatt gcagtttggg ggaacgtgtg aaacttgttg 420  
 aagtcctgcg tgtatgtgcc cagcatgcaa gtactcagat taccgcaccg cttagatctg 480  
 gggctgtcca ggctggagcc ctctctctct tgctcctgct ccagctcaact ggccttcac 540  
 tgcacatagt cctgcaccag tgcagccagc a 571

<210> 922  
 <211> 262  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 7, 12, 125, 198, 208, 214, 231, 253  
 <223> n = A,T,C or G

<400> 922  
 gccaanaca tncaggtcac agcagattcg ggcacgtgtg gaagaagggtt ggatgatgtc 60  
 atccacaaac cctcgcactg ctgcagggaa agggttggca aacttctcga tgtactctgc 120  
 ctgancagct tccacattct catgcccttt gaagatgatc tccacagcgc cctttgctcc 180  
 catgactgca atctctgngg tgggccangc atanttggtg tcaccacaaa ngtgcttaga 240  
 gctcatgaca tentaggcac ct 262

<210> 923  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<400> 923

```

ccactgggac tttggcttcc tgatgccgat tgtggatttc tgctgcaaag acagtgatgt 60
tgagccaggc tgtttcctct ctatccagag gttttgtagt ttttaataaaa ccatacctctg 120
gattaatagt gaaaaatctg tgcagggtcag tgtgacgac gatggaatac cttatcgggc 180
tgttggcagc atcagggtct ttggcatgca ctctcccaac cacggtgcc gcag 234

```

<210> 924

<211> 152

<212> DNA

<213> Homo sapiens

<400> 924

```

ccaggattga caggccatcc attcacagcc aggagatgct gggccagttc ctccaagagg 60
tctccgtcat ggcagtgatg aaaacctaac aggggtggccc cctgtgccag ctccaggtgac 120
tggagccccg gggcctgaca ggttcccagc ag 152

```

<210> 925

<211> 400

<212> DNA

<213> Homo sapiens

<400> 925

```

caatatcatg ccaaggaccc aaacaacctc ttcattggtgc gcttggcaca gggcctgaca 60
catttaggga agggcaccct taccctctgc ccctaccaca ggcaccggca gcttatgagc 120
cagggtggccg tggctggact gctcactgtg cttgtctctt tcctggatgt tcgaaacatt 180
attctaggca aatcacacta tgtattgtat gggctggtgg ctgccatgca gccccgaatg 240
ctggttacgt ttgatgagga gctgcggcca ttgccagtgt ctgtccgtgt gggccaggca 300
gtggatgtgg tgggccaggc tggcaagccg aagactatca cagggttcca gacgcataca 360
accccagtgt tgttggccca cggggaacgg gcagaattgg 400

```

<210> 926

<211> 521

<212> DNA

<213> Homo sapiens

<400> 926

```

ccacgtccct attttagaaa tgagaggagt gactgcacac aggaaaaatg ccacttttag 60
caattcaaag tggaaaaact tcttttatat aaaaattatc ccaactccca ccccttggct 120
ctcagtgttg catctccac agaggtaaag ttgtgccatt ttcccacggc tttaaacaaa 180
gcaaaacaaa accaccaatc ctaataaccc ccctccctgc ccgtctcca cgctgtgcgg 240
agagggctct agccccctcag tcggacttct cttctcctt catgtgcaag aagacgatgc 300
tgaagatgaa gagccccagc atcatggaga aggcgctggc gtagtagggg taggccgagg 360
ggatgaagcg ctcatactgc gtgtgctgga gtggccgcac ggatacctga gtggaagagt 420
acagggtgtg ttagcctagc cggttgtaat ccactttaaa ctggaataca ccatacacgt 480
cgggcaactt gaactgaaca ctgtatttgc cacttttctt c 521

```

<210> 927

<211> 520

<212> DNA

<213> Homo sapiens

<400> 927

```

ccaggctagt ctggaactcc tgacctcagg tgatctgcct gcctcggcct cccaaagtgc 60
tgggattacc ggcgtgagcc accatgcctg gccttacatt ttttaaaatg agggaacaaa 120
tgaataaatg accaccatgt taggggctgg ctctgaacag aattgtaaag tgggccaagc 180

```

```

ttgctctcaa ggtcacctta agcccacggt tgctgtgtcc tgcctctca gggtcatttc 240
ccagcctcca ggcacctgtt cacagaggct gcatctggcc tcgctccac cctccatcc 300
taagggtgctc cgctgactta gaacaggaca gtcagggaga gaatgtgtct caggaggggtg 360
gagtcagatg atcacggcct tcctggcatc tgaggggata cagcttcggg tagcaaagtg 420
tgattttccc tgagccccag gaaagcttgg ccttggtcag aatacattga accctgaggg 480
ccagagagtc cctggggcaa gctctgagag ggaggacctc 520

```

```

<210> 928
<211> 492
<212> DNA
<213> Homo sapiens

```

```

<400> 928
ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60
agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatatac ttaacaaagc 120
aatagctctc aagcagcaga gcatctcgag gaagaaagct tgcccgggtcg ccatcccatc 180
atgccagagc gtgcagtgtc cacccttgac tacgctgggg aattgctgat tttttgaaaa 240
agettaactt aacaatttct gatgtctatc ttttagagtt ctgtatgttc ccatttttta 300
ttctttctgaa ttttgaattg caagtagctg taaaatccaa tctctgagtg catgggggtg 360
ggtgtgaggg ggggctcagc ttcaaccccc tgtcctgtaa agcagtgggt ggtttttctt 420
gagcccagcc ctgggaggtc gtggtaggtg tggaggctgc agagctcctc cagatgctgc 480
cctcgctgtg cc 492

```

```

<210> 929
<211> 209
<212> DNA
<213> Homo sapiens

```

```

<400> 929
ttttttcacc atctaacaaa ggcactttat tgcattacca ttcacaatta acagtcaaga 60
acaaataata ataacaaata aaataacttt taagaggaca aggcattaga aataaaaaag 120
gacactaata acattttgtaa aagcttgtac tggatgtggt tgccccatt tgtgtgtgtg 180
gttgtgtgtg tgtggttgtg tgttgggtg 209

```

```

<210> 930
<211> 617
<212> DNA
<213> Homo sapiens

```

```

<400> 930
cgcgctcttt aacaagcccc gttctcaaaa ggctgggggt atttatataa gaacttattc 60
caaagtgact ctaagatcca tgttcccaag atctagtacg ggctattcat ggttctgagg 120
catgtccagc atgcaggcaa acttatctgt tcaaattgag gtaaaacaga caaaaaacac 180
ttaatattaa cagaagctac ataattaaaa ctaaccttct gctgcttatt taagctaata 240
atgtattctt accaaacaga gacctcaag tcaatcattt cttttgattt tagttaccac 300
ccccaaatta agcctcttct ttcaaagcca ttattagtta aaaaaaagt ttaaaatgaa 360
gaaaaatatt ttttccagaa cttgtatttt gtaattagtg tgatgcaatt tctttttatt 420
tttcaaactt agaaataact catgtatggt actatttggg atttttttca gataccaagg 480
aataccgaca ggattcataa ataggatttt ctgacactgg caggaaagtc tgctaacggt 540
tacaaaatac caaagactct tctttcaagc ttcaaagatg gctgagaatt aacagttatg 600
attagttttt cagtaca 617

```

```

<210> 931
<211> 521

```

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 931

```

ccaacaaaat tggatgaacac atggaagaac atggcatcaa gtttataaga cagttcgtac 60
caattaaagt tgaacaaatt gaagcaggga caccaggccg actcagagta gtagctcagt 120
ccaccaatag tgaggaaatc attgaaggag aatataatac ggtgatgctg gcaataggaa 180
gagatgcttg cacaagaaaa attggcttag aaaccgtagg ggtgaagata aatgaaaaga 240
ctggaaaaat acctgtcaca gatgaagaac agaccaatgt gccttacatc tatgccattg 300
gcgatatatt ggaggataag gtggagctca cccagttgc aatccaggca ggaagattgc 360
tggctcagag gctctatgca ggttccactg tcaagtgtga ctatgaaaat gttccaacca 420
ctgtattttac tcctttggaa tatggtgctt gtggcctttc tgaggagaaa gctgtggaga 480
agtttgggga agaaaatatt gaggtttacc atagttactt t 521

```

&lt;210&gt; 932

&lt;211&gt; 197

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 932

```

ccttgtgacc aattacatat gattaaaatt acttcccaca ttcacatcca cagtactcgt 60
ccaccattta acatctcaac caaaacgtta cacatgtgaa acaatcacta acaggcaaaa 120
atactaaacc tgtatatttg gtattgcaaa tacacttatg catgagcaag caagggattc 180
acagtgagaa tctacag 197

```

&lt;210&gt; 933

&lt;211&gt; 610

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 933

```

cctcatttta acaatatctt ttttttgctc ttctgcttcc aaaccttatt tgccaatgta 60
atgcctttat ataaagtctt tatgatgaat gaaaaacttt caagtgtgtg tgccctcatta 120
aatgcattat ttattaattt aacttctagt actctcgata aagagccagt gaaatgagtt 180
attgagttcc agggaaaaaa atgagaacat aattttgaat ttattatctc tctatacaca 240
cacagttcat aattggatta catataataa taatatcaac aagtctatca gtatcgaggt 300
tgatactgg taatttctca tgtgaggctc ttgtgtcaca gtcagcatag atttctggag 360
catttgtctg ttgatctttt ggtggcctca aacctcatta agtgggtgtg gagatgctgt 420
ttctgccatg tgagaatgtg atggcagaat taacacaacc ccaccagggg tacaacagag 480
cactttacat ccaaaggcag agaggacac agcaatgcag aattccagca cacttaagag 540
gagcaccatg ccatccagac ccattaagat ggacatagtc ccatgacaat tatttgagtt 600
gccatagtag 610

```

&lt;210&gt; 934

&lt;211&gt; 384

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 934

```

ctgctaccag gggagcgaga getgactatc ccagcctcgg ctaatgtatt ctacgccatg 60
gatggagctt cacacgattt cctcctgcgg cagcggcgaa ggtcctctac tgcctacacct 120
ggcgtcacca gtggcccgtc tgccctcagga actcctctga gtgagggagg agggggctcc 180
tttcccagga tcaaggccac agggaggaag attgcacggg cactgttctg agggaggaagc 240
cccgttggct tacagaagtc atggtgttca taccagatgt gggtagccat cctgaatggt 300

```



```

ggcaattata tcacattgag acagaaattc agaaagggag ccagccaccc tggggcagtg 360
aagtgccact gggttaccag gcag                                     384

```

```

<210> 935
<211> 125
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 23, 24
<223> n = A,T,C or G

```

```

<400> 935
nttaaaattc atggaagtaa tannacagta ataaaatatg gatactatga aaactgacac 60
acagaaaaac ataaccataa aatattgttc caggatacag atattaatta agagtgactt 120
cgtaa                                             125

```

```

<210> 936
<211> 546
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 519
<223> n = A,T,C or G

```

```

<400> 936
gcccattgcca gcgtgtggct agcacgcaca acttgtggct gctgtccttc ctgaggaggt 60
ggaattgggag cacagccatc acagacgata ccctgggtgg cactctcacc attacgctgc 120
ggaatctaca accccatgat gcgggtctct accagtgcc aagcctccat ggcagtgagg 180
ctgacaccct caggaaggct ctggtggagg tgctggcagg ttctcccgcc aagggtctcc 240
ccctgcctcg aggaggaagg ggctggaggc tcatggctct gcctcccata gacccccctg 300
atcacgggga tgctggagat ctctggttcc ccggggagtc tgagagcttc gaggatgcc 360
atgtggagca cagcatctcc aggagcctct tggaaggaga aatccccttc ccacccactt 420
ccatccttct cctcctggcc tgcattcttc tcatcaagat tctagcagcc agcgccctct 480
gggctgcagc ctggcatgga cagaagccag ggacacatnc acccagtga ctggactgtg 540
gacctc                                             546

```

```

<210> 937
<211> 550
<212> DNA
<213> Homo sapiens

```

```

<400> 937
caccaatcaa aattcctggt ggctcctgaga ctttgggcag aatcatgaat gtcattggag 60
aacctattga tgaagagagt cccatcaaaa ccaacaatt tgctcccatt catgctgagg 120
ctccagagtt catggaaatg agtggtgagc aggaaattct ggtgactggg atcaagggtg 180
tcgatctgct agctccctat gccaaagggtg gcaaaattgg gctttttggg ggtgctggag 240
ttggcaagac tgtactgata atggagttaa tcaacaatgt cgccaaagcc catggtggtt 300
actctgtggt tgctggtggt ggtgagagga cccgtgaagg caatgattta taccatgaaa 360
tgattgaatc tgggtgttat aacttaaaag atgccacctc taaggtagcg ctggtatatg 420
gtcaaatgaa tgaaccacct ggtgctcgtg cccgggtagc tctgactggg ctgactgtgg 480

```

ctgaatacttt cagagaccaa gaaggtcaag atgtactgct atttattgat aacatctttc 540  
gcttcaccca 550

<210> 938  
<211> 192  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 28, 63, 148, 153  
<223> n = A,T,C or G

<400> 938  
tttttttttt tttttttttt tttttttngg aaaaagccca aaaggcactt tattggaggt 60  
ctntgcctcc attcacagga aaaaggagct gggagcccca tcctaagggt cccagcatca 120  
gccactgga gggcctggaa cagtccanca ctntgtggga aaggagtggg gaggggaatg 180  
ttttaaaaaa aa 192

<210> 939  
<211> 337  
<212> DNA  
<213> Homo sapiens

<400> 939  
ccaaaatatt ggaacacaca gaaccaaacc aggtgtgttc tacacctgca tgagtgaagg 60  
atttccacgt agacacctag gaagagcccg catgccttag actcaactcca gaggaaggat 120  
tgatttgcaa ccagaaaggg agctgaaaac cacggagctc catggctctt cattcaaaag 180  
ggaaaataat gattccacgt tgcttttttag agttcaaatac aacatctttc tggataaaatc 240  
tatttttttaa caatcttttt attatttgta aaagatatataa aaacaactcc catcagtagc 300  
aatacaagggt tatacatttt aaccagattt tctcagg 337

<210> 940  
<211> 362  
<212> DNA  
<213> Homo sapiens

<400> 940  
cctgtccaaa cgtgcgccacc aggaccgagg ggagctccct cccaacacct gctaggaatt 60  
gccaactttt aaatggatgg gggttttttat ggggtgaacc tctgttaata cttttgtaca 120  
ctctcactac agtttatatt tttataggct attttctcaa ggtgtttcta gattccacat 180  
atctatttta tataacaagt tattatgtta tgtgtgtgac tcccttgtgt gtatctgtgc 240  
cagcctcagc ctccgagttg cttttccctc tggccctgac tctcactgac tcaccgatgt 300  
ggtgtgcagg ccactttctt accccagata gcctcgggag ctgcctgtag tcatgccgac 360  
ag 362

<210> 941  
<211> 216  
<212> DNA  
<213> Homo sapiens

<400> 941  
ctggacatct ttccagcccg ggatacctac catcctatga gcgagtaccc cacctaccac 60  
acctatgggc gctatgtgcc ccctagcagt accgatcgta gccctatga gaaggtttct 120

gcaggtaatg gtggcagcag cctctcttac acaaaccag cagtggcagc cactttctgcc 180  
aacttgtagg ggcagtcgc ccgctgagct gagtgg 216

<210> 942  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 942  
ctgattggct tcaggccccc tacctctata aactctacca gcattactac ttcctggaag 60  
gtcaaattgc catcctatat gtctgtggcc ttgcctctac agtcctcttt ggccctagtgg 120  
cctcctccct tgtggattgg ctgggtcgca agaattcttg tgtcctcttc tccctgactt 180  
actcactatg ctacttaacc aaactctctc aagactactt tgtgctgcta gtggggcgag 240  
cacttggtgg gctgtccaca gccctgctct tctcagcctt cgaggccagg gaggcctcaa 300  
tcttcagtct ctcagagacc acag 324

<210> 943  
<211> 597  
<212> DNA  
<213> Homo sapiens

<400> 943  
ctgacaaaat tcttgggtta ctaggtgtct ttcagaagct gattgcatcc aaagcaaagt 60  
accaccaagg tttttatctt ctaaacagta taatagagca catgcctcct gaatcagttg 120  
accaatatag gaaacaaatc ttcattctgc tattccagag acttcagaat tccaaaacaa 180  
ccaagtttat caagagtttt ttagtcttta ttaatttgta ttgcataaaa tatggggcac 240  
tagcactaca agaaatatat gatggtatac aacaaaaaat gtttggaatg gttttgaaa 300  
aaattattat tcttgaaatt cagaaggtat ctggaaatgt agagaaaaag atctgtgctg 360  
ttggcataac caaattacta acagaatgtc ccccaatgat ggacactgag tataccaaac 420  
tgtggactcc attattacag tctttgattg gtctttttga gttacccgaa gatgatacca 480  
ttcctgatga ggaacatttt attgacatag aagatacacc aggatatcag actgccttct 540  
cacagttggc atttgctggg aaaaaaagag catgatcctg taggtcaaat ggtgaat 597

<210> 944  
<211> 359  
<212> DNA  
<213> Homo sapiens

<400> 944  
ctggaagagg aaaaggagat actgcagaaa gaactctctc aacttcaagc tgcacaggag 60  
aagcagaaaa cagggtactgt tatggatacc aaggctgatg aattaacaac tgagatcaaa 120  
gaactgaaag aaactcttga agaaaaaacc aaggaggcag atgaatactt ggataagtac 180  
tgttccttgc ttataagcca tgaaaagtta gagaaagcta aagagatgtt agagacacaa 240  
gtggcccatc tgtgttcaca gcaatctaaa caagattccc gaggtctctc tttgctaggt 300  
ccagttgttc caggaccatc tccaatccct tctgttactg aaaagaggtt atcatctgg 359

<210> 945  
<211> 367  
<212> DNA  
<213> Homo sapiens

<400> 945  
caggatctga agtttggggg cgagcaggat gttgatatgg tgtttgctgc attcatccgc 60  
aaggcatctg atgtccatga agtttaggaag gtccctgggag agaagggaaa gaacatcaag 120

```

attatcagca aaatcgggaa tcatgagggg gttcggaggt ttgatgaaat cctggaggcc 180
agtgatggga tcatgggtgc tctgtgtgat ctaggcattg agattcctgc agagaaggtc 240
ttccttgctc agaagatgat gattggacgg tgcaaccgag ctgggaagcc tgtcatctgt 300
gctactcaga tgctggagag catgatcaag aagccccgcc ccactcgggc tgaaggcagt 360
gatgtgg                                     367

```

```

<210> 946
<211> 335
<212> DNA
<213> Homo sapiens

```

```

<400> 946
ccacagaggt ggtattacaa aatatacaaa gtggtttctt tctttacatt tcatagaaga 60
agcctgcctc atttccaaat gagagcacta gaagcacaaa tcatgcagac catttactat 120
ataacttatg aaaaatgctg tacagggctg tgactataga tatagagtat ttggctctgt 180
ttgggaattg atatctacaa gggggagggg caggggagga ctgtccgata tctgacttgg 240
ctgggatggg ggagaagctg ggatggggga ggccccaatc ttgctgcacg gctacacca 300
ctctctcttt cctagacaag gctggagcgc actgg                                     335

```

```

<210> 947
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 947
cctcttggag cacatccttt actgcattgt ggacagcgag tgtaagtcaa gggatgtgct 60
ccagagttac tttagacctc tgggggagct gatgaagttc aacgttgatg cattcaagag 120
attcaataaa tatatcaaca ccgatgcaa gttccaggta ttcctgaagc agatcaacag 180
ctccctgggt gactccaaca tgctggtgcg ctgtgtcact ctgtccctgg accgatttga 240
aaaccagggt gatatgaaag ttgccgaggt actgtctgaa tgccgcctgc tgcctacat 300
atcccagggt cccacgcaga tgtccttctt cttccgcctc atcaacatca tccacgtgca 360
gacgctgacc caggagaacg tcag                                     384

```

```

<210> 948
<211> 173
<212> DNA
<213> Homo sapiens

```

```

<400> 948
ctgtggaggg gacactgtct ttgaggcatc actggttcca caaagggtag gggaaggctc 60
tgagggacca ccccatgccc tcattaatca accagaagct tggcctggag cagcagcggg 120
gattccagta gctgtgggca tacaggatgc tagggcggcc acaaccaggg cag          173

```

```

<210> 949
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> 13, 14
<223> n = A,T,C or G

```

```

<400> 949

```

```
<210> 950
<211> 382
<212> DNA
<213> Homo sapiens
```

```
<210> 951
<211> 473
<212> DNA
<213> Homo sapiens
```

<400> 951						
cctctctgcc	aggcaaagga	gggagctgcg	gctctttgac	attaaaccag	agcagcagag	60
atacagcctt	ttcctccctc	tccatgaact	ctggaaacag	tacatcaggg	acctgtgcag	120
tgggctcaag	ccagacacgc	agccacagat	gattcaggcc	aagctcttaa	aggcagatct	180
tcacggggct	attatttcag	tgacaaaatc	caaatgcccc	tcttatgtgg	gtattacagg	240
aatccttcta	caggaaacaa	agcacatttt	caaaattatc	accaaagaag	accgcctgaa	300
agttatcccc	aagctaaact	gcggtgtcac	tgtggaaacc	gatggcttta	tttcctacat	360
ttacggggagc	aaattccagc	ttcgggtcaag	tgaacggtct	gcgaagaagt	tcaaagcgaa	420
nggaacgatt	gacctgtgaa	ttctttgccc	tctaangcag	ttgtttatga	cag	473

```
<210> 952
<211> 312
<212> DNA
<213> Homo sapiens
```

$\langle 210 \rangle$	953
$\langle 211 \rangle$	397

<212> DNA  
<213> Homo sapiens

<400> 953  
cgcgctccact gccgaccctc ttgggtttctg aaaccaacct ttcttctctgc tctctctcttt 60  
aagagcaaac cccaacatgt ataagggtcac agcaagtggg agccaggaaa agctgtggga 120  
cccctcattt gagtcacatc catatggcat ggagaaagaa aacctctctg ccagaaggaa 180  
ctgaactctg gaagtcctaa ggaagggtcac catgatcagc agataggaaa gcattgccaa 240  
gggctgtccc tcaagagctt agttttctta gggagaccag aaagacatca gatcctgact 300  
gccctgtttt gctcaagttc tgaaatgagt ggcatgatga agagctgggt gagctgaggg 360  
aaagagtcaa ccatgtgggg tggggtagtg aggaagg 397

<210> 954  
<211> 304  
<212> DNA  
<213> Homo sapiens

<400> 954  
cctttgtacc gggccagcaa ctggaagggc acagtgtgga attccagggc ctgcagagtc 60  
ttcttctgga acagggcctc gtggctccag tacagggaca ggttgaactg cagctcaaag 120  
agctcctcag ggagcatcat ggggaagcgg atcttctcca ccaagccctc cacctcctca 180  
tgggaggcac gctcccccca gctccagggtg tccacggcct tcagtagggc cagctcgctg 240  
ggcaccgcca ggtcgctcct gggcagcagc agttggagca ggtctgtggg gacactgggc 300  
cagg 304

<210> 955  
<211> 156  
<212> DNA  
<213> Homo sapiens

<400> 955  
ctgtttcaac tccctgccaa gaaaaatgta gatgcaattc tggaggagta tgcaaattgc 60  
aagaaatcgc agggaaatgt tgataataag gaatatgcgg tcaatgaagt tgtggcagga 120  
ataaaagaat atttcaatgt gatgttgggc actcag 156

<210> 956  
<211> 543  
<212> DNA  
<213> Homo sapiens

<400> 956  
ctttcatctg accatccata tccaatgttc tcatttaaac attaccagc atcattgttt 60  
ataaccagaa actctgggtc ttctgtctgg tggcacttag agtcttttgt gccataatgc 120  
agcagtatgg agggaggatt ttatggagaa atggggatag tcttcatgac cacaaataaa 180  
taaaggaaaa ctaagctgca ttgtgggttc tgaaaagggt attatacttc ttaacaattc 240  
tttttttcag ggacttttct agctgtatga ctgttacttg accttctttg aaaagcattc 300  
ccaaaatgct ctattttaga tagattaaca ttaaccaaca taatttttt tagatcgagt 360  
cagcataaat ttctaagtca gcctctagtc gtggttcac tctttcacct gcattttatt 420  
tggtgtttgt ctgaagaaag gaaagaggaa agcaaatacg aattgtacta tttgtaccaa 480  
atctttggga ttcatgtgca aataatttca gtgtggtgta ttattaaata gaaaaaaaaa 540  
att 543

<210> 957  
<211> 528

314

<212> DNA  
<213> Homo sapiens

<400> 957

```
ctgtgatcaa gatgtattaa aagaatatga aagagcatct gggttattct agaagttctg 60
tgatcaaaac atattaaaaa aaattaaagc gcatctgggt tattctagaa gttcctgggc 120
tttatacttg gatattttaca gaggaagttg aacttcaagt tctgccactc ttcaaaatgg 180
gtgacaggag aggacgtgat aggacagtta aaaaaaaatt gatagtcatt ctctgatgga 240
gtgaagcaag ctttgtcaac catcaacaaa tatgacttca ttggtcacaa gccctgcaga 300
gatccaacaa gatttgagtt ttaaatacag aacatatattc aaacagaacc agcagagtgc 360
tgatgtatga atggaattga ttgctgaagg cagagagtat aaagaatctc aagaaacttt 420
tagtgccatt ttcatttaat aagccattgg tatagcaacc taaaaacctt ggctgtgatg 480
acaccaggat gtgtttatgg aattgctgca ggagaacaca attggcag 528
```

<210> 958  
<211> 451  
<212> DNA  
<213> Homo sapiens

<400> 958

```
ctgtctgacc atggggacct tctgtctgaa gaggagctgg atgaatgaga ctctgggaat 60
catctacaca ggaccaaaacc caacaggcgc cctggcaccg gggaggcggg tagttgtact 120
ctgcttgtag agtccttgag cccagtttac agatctggag agcaggaggc caggacaagg 180
acaaaggctg gaggatggag taggaccacg gggctctgcc atcctaggca tcattcaagg 240
tcttttatga agactttaca gatgtcctct gtaagtagca tcgagagtgg agttcagctc 300
ctttctctac ttttttttgg tctgatggca catatttatt gttctgtggg ctaatcacag 360
tgttttctaaa tgtaaaaagt gcatatgttg gtgtagctag tcccgcgaca ttgagctcct 420
ctgcatgaag acactgggct cctgcatcca g 451
```

<210> 959  
<211> 158  
<212> DNA  
<213> Homo sapiens

<400> 959

```
ccagaccaag gctgctggac ctatgggaat attcgggtgt ctgtagagga tgtgactgtc 60
ctgggtggact acacagtacg gaagttctgc atccagcagg tgggcgacat gaccaacaga 120
aagccacagc gcctcatcac tcagttccac tttaccag 158
```

<210> 960  
<211> 235  
<212> DNA  
<213> Homo sapiens

<400> 960

```
ctgagcaggg aatccggccg gaggaaggag cagcttaccg actgcgggtg ttcaccacag 60
gccaggccct aatatgcacc cactagttta gtcagactc ctctctacat atgaatggca 120
aaggcacttt tgatatacac tgtaaaatac actgtatttt agaatcggaa tctatatttct 180
aatgttcccc tcaagggtg agtggcagga aggttgagga tgcaggactt tgcag 235
```

<210> 961  
<211> 375  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 961

```
cctggaaaga aaagggatat gtccagcgac ttggagagag accatcgccc tcatgttagc 60
atgccccaga atgccaacta aactcctccc tttccttcct aatttccttt cttgcatect 120
tcctataact tgatgcatgt ggtttggttc ctctctgggtg gctctttggg ctggtattgg 180
tggctttcct tgtggcagag gatgtctcaa acttcagatg ggaggaaaga gagcaggact 240
cacaggttgg aagagaatca cctgggaaaa taccagaaaa tgagggccgc tttgagtcct 300
ccagagatgt catcagagct cctctgtcct gcttctgaat gtgctgatca tttgaggaat 360
aaaattattt ttccc 375
```

&lt;210&gt; 962

&lt;211&gt; 409

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 14, 26, 73, 74, 81, 103

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 962

```
ctggggaggc ccncggggcc tctcangtgg acagggtccag gcattgggtg aagctgggatg 60
aagctggggc ctngctcct nctcatcaaa tacagatcac tgngaccctg tcctcctcca 120
tgggtgctgg ctctcggcc ccaactgccc tgcttctgct ttcttcctcc acctcctcct 180
ccccagctc catgtccagc tcgttgcttg cctctgaggg tgtgtagggtg gagccactga 240
tggaacggca gctaaagaag acgattcgtc tgagccgctt gttgtagaag aagtagttga 300
aggaccagag gctaccatcc tccccgaagg gatctgagtc caagtctggg ttatagctgt 360
agatgtcaca ttcagccagg cagatctcct cgtccaccgc gttccacag 409
```

&lt;210&gt; 963

&lt;211&gt; 163

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 963

```
gccatggcgt cctatttcga tgaacacgac tgcgagccgt cggaccctga gcaggagacg 60
cgaaccaaca tgctgctgga gctcgcaagg tcacttttca ataggatgga ctttgaagac 120
ttggggttgg tagtagattg ggaccaccac ctgcctccac cag 163
```

&lt;210&gt; 964

&lt;211&gt; 344

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 964

```
ccactggctg agttattggc ctggcaggta tagagtccgc tgttcttctc agtgatgttg 60
gagataaaga gctcttgtgt gtgttgctgg atgttcccat caatcagcca agaatactgt 120
gcagggtggg tagaggctgc atggcaggag aggctgaggt tcaccctgg acggtaatag 180
gtgtatgagg gggaaatggt ggggtcgtct gggccataga ggacattcag gatgactggg 240
tcgtgtgggt caacacttaa ttcgttctgg attccacact catagggtcc tacatcattc 300
cttgtgacac tgagtagagt gagggctcctg ttgtcattgg acag 344
```

&lt;210&gt; 965

&lt;211&gt; 461



<212> DNA  
<213> Homo sapiens

<400> 965  
ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60  
agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatata ttaacaaagc 120  
aatagctctc aagcagcaga gcatctcgag gaagggaagct tgcccggctcg ccatcccatc 180  
atgccagagc gtgcagtgct cacccttgac tacgctgggg aattgctgat tttttgaaaa 240  
agcttaactt aacaatttct gatgtctatc ttttagagtt ctgtatgttc ccatttttta 300  
ttcttctgaa ttttgaattg caagtagctg taaaatccaa tctttgagtg catgggggtg 360  
ggtgtgaggg ggggctcagc ttcaaccccc tgtcctgtaa agcagtggtt ggtttttctt 420  
gagcccagcc ctgggaggtc gtggtaggtg tggaggctgc a 461

<210> 966  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 966  
cctttcacag acactaccat tgagtgggtt gatgcagggt gcagccttca gtccccgagt 60  
actgggttct gataaaattc cacagaatcc agcatcactg ggctcagacg gcattccactg 120  
tagtaaaacta tttgtaaatg gggacatatc ttcccagcac cagtaggaca cattgatctt 180  
ccgaaggccg acccatgggg ttaaggtagag cttggacatg ctctgagatg actgcattat 240  
tcgcag 246

<210> 967  
<211> 244  
<212> DNA  
<213> Homo sapiens

<400> 967  
ctggagcatt ggcagggaca gtcagaaagg agacaagtga aaacgggtcag atggacacag 60  
gcgaggagaga aaagacagag ggagagagac catcggaac aatcagaggg gccgagacga 120  
tcagaaaagg gtcagccga gacaggctga gccagagttt ctagaagcag tttccaattc 180  
aacggctcgc tttgagggcc aacgtgtcct aggccgaggg tgcagaagcg ctcacacact 240  
cacg 244

<210> 968  
<211> 436  
<212> DNA  
<213> Homo sapiens

<400> 968  
ccaaagtctt taccctatct aacccttgt atatttctga ctgctcactg ttcattattat 60  
aggggaccag atttgtaata tagaattctc cataacatga atgaaattaa tgctgtccaa 120  
gccagcatgg tggcttcata ttaagtagta acagaagtct gaacaattgg ataaatttga 180  
cttccaagac agctaaactt ttcaactgca attttaaaaa ctacactaca ctgttatagt 240  
taactctgaca aaaatgtcct caaagagtac tttattttat ttaaagcatc tgtttaattc 300  
aacctttaat aattttgcaa agaagggtac gtgtgtatct taatatagcc tgacctgaat 360  
ttatatgttt ttagcttttag tatttaactt tttgtaacaa ataaaccttt tttaaaacaa 420  
gttttaaaaa gaaaaa 436

<210> 969  
<211> 383

<212> DNA  
<213> Homo sapiens

<400> 969  
ctggctccct tgtctccagg gctttggagg atcagggtag ggagggctct gtctctaagc 60  
caggtgtcag gatcagaatc atgggtagaa ggtgccattc agctcacagc cgcacccaga 120  
atccttttgca gccctccttc tttatttttt tccatttgca ttctgggagt ccacatctgg 180  
ctttctcagc cactgttcat caccaggggt tttaggagga aggcttggct cctgtcttcc 240  
cagaccacc atgcctggag aggtcaggat ggaactacct cattcggcga attagcccca 300  
aattgaacgc tgaatcgtgt cccatgagat caggcgccat ctgtaaagtc tectctggaa 360  
atgccaatcc atccttcccc cag 383

<210> 970  
<211> 543  
<212> DNA  
<213> Homo sapiens

<400> 970  
ctgtagcttt tgtgggactt ccactgctca ggcgtcaggc tcaggtagct gctggccgcg 60  
tacttgttgt tgcctttgtt ggagggtgtg gtggtctcca ctcccgctt gacggggctg 120  
ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180  
agtgtggcct tgttggcttg aagctcctca gaggagggcg ggaacagagt gaccgagggg 240  
gcagccttgg gctgacctag gacggtcagc ctggtccctc cgccgaacac cgaagtgcta 300  
ctgtttgtat atgagctgca gtaataatca gcctcgctct cagcctggag ccagagatg 360  
gtcagggagg ccgtgttgcc agacttggag ccagagaagc gattagaaac cctgagggc 420  
cgatcagtga catcataaat catgagtttg ggggctttgc ctgggtgctg ttggtaccag 480  
gagacatagt tataaaaaacc aacgtcactg ctggttccag tgcaggagat ggtgatcgac 540  
tgt 543

<210> 971  
<211> 416  
<212> DNA  
<213> Homo sapiens

<400> 971  
ccagactgac ttcaaaaaat taatgtgtat ccaggacat tttaaaaacc tgtacacagt 60  
gtttatttgt gttaggaagc aatttccaa tgtacctata agaaatgtgc atcaagccag 120  
cctgaccaac atggtgaaac cccatctgta ctaaacataa aaaaattagc ctggcatggt 180  
ggtgtacgcc tgaatccca gtgacttggg aggctgaggc aggagaatcg cttgaacccg 240  
ggaggcggag gttgcagtga gctaagatcg caccactgta ctccagcctg ggcaacagcg 300  
agactccatc tcaaaaaaaaa aggaaatgtg tatcaagaac atgattatcc aggggtatct 360  
tctaattcag atcatcaaac tgattatata gaagagttgg ctttaaaatg tttgca 416

<210> 972  
<211> 242  
<212> DNA  
<213> Homo sapiens

<400> 972  
ccaaaaatcc caaaacatca ttttcaatca gtagagaagt gcttaggggtt gaaaattgat 60  
ttcattttgct actgaatttg gtaaatcctg ggtaactttt atcaagatga agacatttta 120  
ccctacctac tctagaaata tacaacaatg ttatatTTTA cactccttgg aaacatttga 180  
ggaaaaaaat gcaatttgca cttcactttg ttggaatatc ccatagcact caataaactc 240  
ag 242

318

<210> 973  
 <211> 347  
 <212> DNA  
 <213> Homo sapiens

<400> 973  
 cctgcagggg atggaacctt ccagaagtgg gcggtgtgtg tgggtgccttc tggagaggag 60  
 cagagataca cctgccatgt gcagcatgag ggtctgccc aagccctcac cctgagatgg 120  
 gagctgtctt cccagcccac catcccatc gtgggcatca ttgctggcct ggttctcctt 180  
 ggagctgtga tcaactggagc tgtggtcgct gccgtgatgt ggaggaggaa gagctcagga 240  
 cattttcttc ccacagatag aaaaggagg agttacactc aggtgcaag cagtgcagct 300  
 gcccagggct ctgatgtgtc tctcacagct tgtaaaagtgt gagacag 347

<210> 974  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

<400> 974  
 gaaagagcga gatgcgagaa cacttttggc taaaaatctc ccttacaaag tcaactcagga 60  
 tgaattgaaa gaagtgtttg aagatgctgc ggagatcaga ttagtcagca aggatgggaa 120  
 aagtaaaggg attgcttata ttgaatttaa gacagaagct gatgcagaga aaacctttga 180  
 agaaaagcag ggaacagaga tcgatgggcg atctatttcc ctgtactata ctggagagaa 240  
 aggtcaaaat caagactata gaggtggaaa gaatagcact tggagtgggtg aatcaaaaac 300  
 tctggtttta agcaacctct cctacagtgc aacagaagaa actcttcagg aagtatttga 360  
 gaaagcaact tttatcaaag taccacagaa ccaaatggc aaatctaaag ggtatgcatt 420  
 tatagagttt gcttcattcg aagacgctaa agaagcttta aattcctgta ataaaaggga 480  
 aattgagggc agagcaatca ggctggagtt gcaaggaccc aggggatcac ctaatgccag 540  
 aagccagcca tccaaaactc tgtttgtcaa a 571

<210> 975  
 <211> 221  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 15  
 <223> n = A,T,C or G

<400> 975  
 ctggaggtgc ctcanaaggt gcattctgct tctgcaggg gcttgaaaca ccaaggcact 60  
 ccagggatcc tggagtcaaa gcagcagccc cggttgttgc actccttggg ggtgacatgg 120  
 gggtagccgc agtccaccct gtccttggct ggcacggcac actggtttgc agacaggccc 180  
 acgtactcct cagcagagct ggaggacagc aaggccagga c 221

<210> 976  
 <211> 316  
 <212> DNA  
 <213> Homo sapiens

<400> 976  
 ccatcagatt gtcacagact ttataaccc ttgatccct accaacgtta agtatgagtt 60

```
<210> 977
<211> 335
<212> DNA
<213> Homo sapiens
```

```
<210> 978
<211> 280
<212> DNA
<213> Homo sapiens
```

```
<210> 979
<211> 318
<212> DNA
<213> Homo sapiens
```

```
<210> 980
<211> 568
<212> DNA
<213> Homo sapiens
```

<400>	980						
ccagcactgg	ctccttgatg	gttttcctag	gacattagga	caagccgaag	ccctggacaa	60	
aatctgtgaa	gtggatctag	tgatcagttt	gaatatcca	tttgaaacac	ttaaagatcg	120	
tctcagcgc	cgttggattc	accctcctag	cggaagggtg	tataacctgg	acttcaatcc	180	
acctcagtga	catggtattg	atgacgtcac	tggtgaaccg	ttagtcacag	aggaggatga	240	

```

taaaccgcgaa gcagttgctg ccaggctaag acagtacaaa gacgtggcaa agccagtcac 300
tgaattatac aagagccgag gagggtctcca ccaattttcc ggaacggaga cgaacaaaat 360
ctggccctac gtttacacac ttttctcaaa caagatcaca cctattcagt ccaaagaagc 420
atattgaccc tgcccaatgg gagaaccagg aagatgtggt cattcattca atagtgtgtg 480
tagtattggt gctgtgtcca aattagaagc taactgaggt agcttgacgc atctcttcta 540
gttgaaatgg tgaactgata ggaaaaca 568

```

```

<210> 981
<211> 550
<212> DNA
<213> Homo sapiens

```

```

<400> 981
ccatccccct ttagaacgta tcttaatgtg aacataaatt gttcttcatg atgcttaaaa 60
gcttacatat aattttcatt cttagaaaaa cgccacattt tggatcctgg atttttctga 120
atatcatgat tgaaaaaaac aaaacaaaaa atgaacccaa atcaaagtgt ggttaaactt 180
atatgagaaa gatttttcaa ccagatggtc attcaaaaaa gttggagctg taagtgccgg 240
cgactgagga cacagggtta attcctcgct gctggtggaa ggctagagaa catcttcaaa 300
agagggtagc aagacgtgct cctaggggag gctcagtggt gtctcgctctg cccaagcatt 360
ttcagtcctg cttgggtcaat gacatcgagt aagtttttgg catccacagc cagggcgtga 420
gcagcagtcg gcatttgctt tttgtactct tgctggaggc tggtcatgac atactgctgg 480
gccagtttca tcttgttgat gagctcaccg aggtcagagt tcaatagctt ctgtgccatc 540
tcaatctctc 550

```

```

<210> 982
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<400> 982
ccaaggtagc aggctgatgc aacaggccct cttctcccca gggccaggct cctgtccagc 60
ctgggcactg cccagagtga tggcattggt ccggatgctg ttctgtctct gcttggacac 120
cttcgcaaag atttctttca ggacagtctc aaaggctagc tcaacattgg tagagtccag 180
ggctgaggtc tccaggaaga gcagtccatt gttttcagcg aacattcggg cctcctcagt 240
gggcacttcc cgggcctggc tgaggctact tttgttaccg acgagcatga cgacgatcgt 300
ggcttcagca tggtcataga gctccttcag ccacgctcc accacagcat aggtctggtg 360
cttggttagg tcaaacacca ggaggcccc cactgcacca cgatagtacc cttgaagaca 420
aagttataat cttcctcagt tccattcccc atcttggtct cgcattggagg gtgcagggtg 480
cttcggggac agaggcgaca aatctgtgtg ttggctcaat gcc 524

```

```

<210> 983
<211> 140
<212> DNA
<213> Homo sapiens

```

```

<400> 983
ccttcgtgcc ctaacagcca gtcccctgtt aaagtggaag agacctgtgg ctgccgctgg 60
acctgccoct gtgtgtgcac aggcagctcc actcggcaca tcgtgacctt tgatgggcag 120
aatttcaagc tgactggcag 140

```

```

<210> 984
<211> 358
<212> DNA
<213> Homo sapiens

```

&lt;400&gt; 984

```
tggagcggcc gcccggcagg tccaacgagt cacaacagtg caataggtag aggattaaaa 60
actgcatcaa acagggtgctg aaaataaata ctacctagga gaaggagggtg agagccctcg 120
tgtgggggttt gttttcgacc ccttgagtgt gtgtgggggtt tgtcttcoga gccacgagcc 180
tggcctgtct cgcgggtgctg ttcactctga cagagtgcgc ctgcagcacg ttgcctccag 240
ggcccagcct cccagaagcc tcagagcatc agagcatccg tcccatcgga tggaccagaa 300
acaagaaaat ggggtggggt gaatcacagc tatcattcaa aggaaaggaa tttttttc 358
```

&lt;210&gt; 985

&lt;211&gt; 450

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 985

```
ctgaccccc tttgtccaca gctaagatgg cagcagaatg ctatgtcact atatacagaa 60
acaagacaac ctgaagctaa atggatgccc cctgcagagt caacagggtcc agcctcacag 120
tgcaagccct gagctacagc ctctcccaaa aggcattctt cccacagcct caacgcccag 180
caaggagcat caagggtttg tctcgggtgt tttgttcttt ttacaaacta tagatatata 240
cagttgaaaa ctcaggattt ctagccaata accatagtta ccaccacctt acaaataaaa 300
agaaaatgcc agaaacatct ttaaattgct tgtcacacca acagcaaagt gcacagagtg 360
aggagaacac gagagtgcct tttcatttta aaaatgtttg gaaatatgta caactttgat 420
acagtttcag ggtgctccag acacccatgg 450
```

&lt;210&gt; 986

&lt;211&gt; 340

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 986

```
cctcctgcc gcagttcttg aagcttcttt ttcattcctg ctactctacc tgtattttctc 60
agttgcagca ctgagtggtc aaaatacatt tctgggccac ctcaggggaac ccatgcatct 120
gcctggcatt taggcagcag agcccctgac cgtcccccac agggctctgc ctcaagtcct 180
catctcattt ggctgtgtaa agaaatggga aaagggaana ggagagagca attgaggcag 240
ttgaccatat ccagttttat ttattttatt ttaatttggt tttttctcca agtccaccag 300
tctctgaaat tagaacagta ggcggtatga gataatcagg 340
```

&lt;210&gt; 987

&lt;211&gt; 227

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 987

```
ccaatgccc gagcaggccc tctttccatc ccgtgtcgga tgagctggtc aactatgtca 60
acaaacggaa taccacgtgg caggccgggc acaacttcta caacgtggac atgagctact 120
tgaagaggct atgtggtacc ttcttggttg ggcccagcc accccagaga gttatgttta 180
ccgaggacct gaagctgcct gcaagcttcg atgcacggga acaatgg 227
```

&lt;210&gt; 988

&lt;211&gt; 241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 988

```
<210> 989
<211> 193
<212> DNA
<213> Homo sapiens
```

```
<210> 990
<211> 499
<212> DNA
<213> Homo sapiens
```

```
<210> 991
<211> 262
<212> DNA
<213> Homo sapiens
```

```
<210> 992
<211> 535
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 90, 91, 467, 524
<223> n = A,T,C or G
```

ctgctgcttg	tgaattcat	gtgtggtact	aagtacctta	catgaattat	ttcatttaac	60
cctcccaaca	gtctccttg	tacgtgctgn	nctctctgcc	tggaaacact	gtttccacc	120
cccaaccccc	aattcttctg	tttatttttc	ttgagacaga	gtctcactgt	gtagccaga	180
ctggagtgca	gtggcgcat	ctcggtcac	tccaatctcc	gcctccggg	tcctgttca	240
agcagttctc	ctgcctcage	ctcctgagta	gctgggatta	caggcacacg	ccaccatgtc	300
cagctaattt	ctgtattttt	agtagagatg	gggtttcacg	atgttggtta	ggatggtctc	360
gatctctggt	cagagtcttt	tctgtaaata	tccttggtta	agaagcaatt	ttagactgta	420
gctgttgcaa	atgctttaag	gaagaagcaa	aacaactgtc	agtcttctg	aatgaagaa	480
actacaccag	ggctgctata	tcagagcaac	cccaaccagc	actncaatca	tgatg	535

<211> 232

<213> Homo sapiens

ctgctgctct	ccctcccag	tctctactca	ctgggatgag	gttaggtcat	gaggacacca	60
aaaacctaaa	aataaaca	aagccaaaca	agccttagct	tttcttaaag	gctgaaatgc	120
ctggaagtgt	ccctttat	ataaaataac	ttttgtcata	tttcttatac	atgtttcttg	180
taagaaattc	agaaactaca	gacaaaqaga	gtggaaatta	cccactgtca	gg	232

<211> 203

<213> Homo sapiens

```
ccagcagatc atccaacgacg accaccctct gtcttggtct cagggcgtct ttctgaatct 60
ccagctcagc cttcccgtac tccagggaat aggaggccca cagagtgggg cctggcagct 120
tcccccgctt tcggatgagc acgcagccca gtccaagctc ctgggccagg gaggggccaa 180
agaggaagcc tctggagtct aag                                     203
```

<211> 238

<213> Homo sapiens

ccatgcctgc cccgccact ctgtatatat gtaagttaaa cccgggcagg ggctgtggcc 60  
gtctttgtac tctggtgatt tttaaaaatt gaatctttgt acttgcatatg attgtataat 120  
aattttgaga ccaggctctg ctgtgttgct caggctggct ccaaactcct gagatcaagc 180  
aatccgccca cctcagcctc ccaaagtgtc gagatcacag gcgtgagcca ccaccagg 238

&lt;211&gt; 379

<213> Homo sapiens

ctgcagcctg ggactgaccg ggaggtcttg accatttacc caccacaggt aggttgtgtt 60  
ctgaacctca ggttcacagg tgaaggccac agcatccttg tctccacgg gtttgagtt 120  
gttgctggag atggagggtc tgggcagctc cgggtataca tggaactgtc cggttgcttc 180



```

ttcattcaca agatctgact ttatgacttg tagggatatag aatcctgtgt cattctgggt 240
gacgttcttg atcagcaggg atgcattggg gtatattgtc tctcgaccac tgtatgcggg 300
ccctggggta gcttgttgag ttcctattac atatcctaca attagactgt tgccatccac 360
tctttcgccct ttgtaccag                                     379

```

```

<210> 997
<211> 210
<212> DNA
<213> Homo sapiens

```

```

<400> 997
ccatccgaag caagattgca gatggcagtg tgaagagaga agacatattc tacacttcaa 60
agctttgggtg caattcccat cgaccagagt tggccgacc agccttggaa aggtcactga 120
aaaatcttca attggattat gttgacctct acctattca tttccagtg tctgtaaagg 180
ccgtggagaa gtgtaaagat gcaggattgg                                     210

```

```

<210> 998
<211> 207
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 61
<223> n = A,T,C or G

```

```

<400> 998
ggtggctgtg ctggggggcgc cccacaaccc tgctcccccg acgtccaccg tgatccacat 60
nccgagcgag acctccgtgc ccgaccatgt cgtctggtcc ctgttcaaca ccctcttcat 120
gaacccctgc tgccctgggtc tcatagcatt cgctactcc gtgaagtcta gggacaggaa 180
gatggttggc gacgtgaccg gggccca                                     207

```

```

<210> 999
<211> 315
<212> DNA
<213> Homo sapiens

```

```

<400> 999
ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagagggc 60
atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggccttc 120
tggcagacct catgcaatgc cctccatgtt aatattcatc agaaaatgga taattagggg 180
ggccagcaaa aatatcaagg gtcaaatac gcacatttct gtttaggcca tctatggctt 240
tcatctcttc tgaagtcaac tggaattcaa acacctgcac gttctgtctg atgcgctgct 300
cattgtagct cttgg                                     315

```

```

<210> 1000
<211> 186
<212> DNA
<213> Homo sapiens

```

```

<400> 1000
ctgttactca agaagatgta tttaatgctt gacaataaga gaaaggaagt agttcacaaa 60
ataatagagt tgctgaatgt cactgaactt acccagaatg ccctgattaa tgatgaacta 120
gtggagtgga agcggagaca gcagagcgcc tgtattgggg ggccgcccaa tgcttgcttg 180

```

gatcag

186

&lt;210&gt; 1001

&lt;211&gt; 173

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1001

```
ccacaaagcg gaaactcatc cacttttgcc tttttccgcc ccagggtcaaa aatgcgaatc 60
ttggcatcag ggacacctcg gcagaagcga gactttgggt acggcttggt cttacaatac 120
cggtaacaac gggcggggcg gcggcccatg gcgacaccag gatcttcagt ggc 173
```

&lt;210&gt; 1002

&lt;211&gt; 302

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1002

```
ctgaatgect gagcccagca gggagctgag gatcatgggg tactgggggg gcctgaagac 60
gtcgccgtgc accaacttcc acccagactc ctccatgggt tcttcaatgt catcctcctt 120
gtttagattg gcaatgtcct tccggagggt ccgaatgata atcatgctca ggataacctga 180
caggaagaag accacaacaa cggagttaat gatagaaaac cagtggatct ggacgtcact 240
catggtcagg taagtgtccc agcgagaggc ccatttgata tcactttcct cccagtggac 300
ag 302
```

&lt;210&gt; 1003

&lt;211&gt; 368

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1003

```
cctggggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttatttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
ggctcactgc aacctctgcc tcctgggctg cagtgattct cctgcgttca agtaattctc 180
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
tttgatattt tagtagaaat ggggtttcac catgttggtg aggtctggtct cgaactcccg 300
acctcaagga tcctcctgcc tcggcctcct aaggtgctgg gattgcaggt gtgagccacc 360
acgtctgg 368
```

&lt;210&gt; 1004

&lt;211&gt; 294

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1004

```
ctgggcggat agcaccgggc atattttgga atggatgagg tctggcaccc tgagcagtc 60
agcgaggact tggctcttagt tgagcaattt ggctaggagg atagtatgca gcacggttct 120
gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga 180
ttacagggtt gggcacagct cgtacacttg ccattctctg catatactgg ttagtgaggt 240
gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcttt gtgg 294
```

&lt;210&gt; 1005

&lt;211&gt; 414

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1005

```
ctgaagcact cttcagagac tacgtccaca gacactgatg ctgaggcctt tcttgtaagt 60
gaagaaaaag gaatgcagca aagaagagtt cgacattgga gtccttagtt ccatcaggat 120
cccatcgcga gccttttagca tcatgtagaa gcaaactgca cctatggctg agataggtgc 180
aatgacctac aagattttgt gttttctagc tgtccaggaa aagccatctt cagtcttgct 240
gacagtcaaa gagcaagtga aaccatttcc agcctaaaact acataaaaagc agccgaacca 300
atgattaaag acctctaagg ctccataatc atcattaaat atgccaaaac tcattgtgac 360
tttttatttt atatacagga ttaaaatcaa cattaaatca tcttatttac atgg 414
```

<210> 1006

<211> 272

<212> DNA

<213> Homo sapiens

<400> 1006

```
cggagagcca cgggtggcat ggctgccaga gcgctctgca tgctggggct ggtcctggcc 60
ttgctgtcct ccagctctgc tgaggagtac gtgggcctgt ctgcaaacca gtgtgccgtg 120
ccagccaagg acagggtgga ctgcggctac ccccatgtca cccccaagga gtgcaacaac 180
cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gccctgcag 240
gaagcagaat gcaccttctg aggcacctcc ag 272
```

<210> 1007

<211> 313

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 14

<223> n = A,T,C or G

<400> 1007

```
cctgccttac tctnttcctt ttccccaggg actcttggtt ttcagaagcc cctctggaat 60
gtcctacctg gcctaacccc ataccagcag tgcagacaag gaggcactcc tactatagtg 120
ggctccagccc atggagagac tcaattctg ccccaacacc tcttccccta gaccctgagg 180
gccaggacaa tgtcttagtg ccttccaact tggcagagtg aggcccatg agacagagag 240
aaagggggaa gagggaaata cctttatcca aataaatacc catccaaaat tatttgtgat 300
aggtgaaaaa tgg 313
```

<210> 1008

<211> 317

<212> DNA

<213> Homo sapiens

<400> 1008

```
cctcaatgtc gtgctagagg ggccgaagaa ggccgtgaac gacgtgaatg gcctgaagca 60
atgtttggca gaattcaagc gggatctgga atgggttgaa aggctcgatg tgacactggg 120
tcgggtaccg gagatcgggt gatctgaggc gccagcacct cagaacaagg accagaaagc 180
tgttgatcca gaagacgact tccagcgaga gatgagtttc tatcgccaag cccaggccgc 240
agtgccttga gtcttaccce gcctccatca gctcaaagtc cctaccaagc gaccactga 300
ttattttgcg gaaatgg 317
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1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 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 gcccagagg cagtgatttc atgtccccct gaggttttagc agagccacca atgtcaatag 180  
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 <222> 274, 275  
 <223> n = A,T,C or G

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tgccagcatt	gggagcgcgc	tcctagcagg	cagcaccaca	ggtgccctgg	ctgtggetgt	180
ggcccagccc	acggatgtgg	taaaggtcgc	attccaagct	caggccccgg	ctggagggtg	240
tgggagatac	caaagcacgc	tcaatgccta	caagaccatt	gcccgagagg	aagggttcgc	300
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gccggcgacc	tatgacctca	tcaaggatgc	cctcctgaaa	gccaacctca	tgacagatga	420
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caaagaccag	agatggagtg	agagaggttt	ttgaaatggc	tacgagagct	gctctgcaag	360	
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ttagaagcca act 553
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<213> Homo sapiens
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taacctttat gttcttcatt aaaaatctta tcttggactg atttgaggga tttttagaaa 180
catggcctta ttttatataa gcattacctt cccaggaatc tttgttgat attaatTTTT 240
gataaccatt tgattaactt taaaattaag tatatgtgtg tatatatata tatgtatggt 300
tatatacaca catgtatctg tatagtTTTA tatatacata tatacacata gacatacaga 360
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atTTTatctg t 431
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<212> DNA
<213> Homo sapiens
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atcaacattt gtgatgccaa cttcagtggg gatcttgact ctgagctcta cgggtatttgc 180
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gacgttcatg aaatttagtt caaaaacatc ccctacaggg gtgaaggatg tcttctggag 300
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<212> DNA
<213> Homo sapiens
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totaccaagg cttaactttg tggttaaacta cctggaaaat acagaagttg ctagtcggcc 420
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503

<210> 1019

<211> 348

<212> DNA

<213> Homo sapiens

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ctgttggaact tgctgctggg actggaactg gaactgttcc tcggagggcc gaggagtcac 180
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<211> 260

<212> DNA

<213> Homo sapiens

<400> 1020

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gggagcacag ggacaagcac atggctatgg aatgcagggt gacccaagga caagcgagtt 180
gcggggatct ctactgtgac catgcagaat tgatcgagct ctgctgcgcc accaccacct 240
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<210> 1021

<211> 407

<212> DNA

<213> Homo sapiens

<400> 1021

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ggagacgatg tcatcatcat cggggtcttt aagggggaga gtgacccagc ctaccagcaa 180
taccaggatg ccgctaacaa cctgagagaa gattacaaat ttcaccacac tttcagcaca 240
gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaaa 300
ttccagtcca agtatgagcc ccggagccac atgatggacg tccagggctc caccagggac 360
tcggccatca aggacttcgt gctgaagtac gccctgcccc tggttgg 407
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<210> 1022

<211> 140

<212> DNA

<213> Homo sapiens

<400> 1022

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<211> 280

<212> DNA

<213> Homo sapiens

<400> 1023

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gcgtactcct cagcagagct ggaggacagc aaggccagga ccagccccag catgcagagc 240
gctctggcag ccatgaccac cgtgggctcc gggacgcagc                280
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<210> 1024

<211> 274

<212> DNA

<213> Homo sapiens

<220>

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<222> 262

<223> n = A,T,C or G

<400> 1024

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ccccaaagacc caggcccgtc tccactcata cagccacctt acatgtgacg tcagccctga 120
aaaggttaaca ggaaagtcca gaacaaaaac aaaccccaa aagtaaaaag gctacgtgta 180
gcagagtaat accggaacg ttatatacac aggcggtgat ggccccctcg gaagtgtccg 240
ggtcacttag ggggcactgc anaggctcct gtgg                274
```

<210> 1025

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 427, 431, 440

<223> n = A,T,C or G

<400> 1025

```
gcaaagagtg tactgtgctt gaggcagagc actcacacat aaatggctgt gtgtggaatt 60
gcttgccaaa gaagtttcta gcctttccct ttcccctaac tgcacaggg aagaattctt 120
atctctagct tggtttccac atgaggtttt tctgagaagg gcttgggaca agaagtctgt 180
catgttagtt aagcaggcaa gaaatcctac taatccagtt ttgtttgaaa gttgtttgtc 240
cgtatgattt tttaaaagtc aagtttaatt tcaaaaaacc ttttttttct gagattactt 300
ttggggtaat atttaaaatg agagacattt tgtaaccctg taaaatacat agggaaatata 360
acattccagt gtatacaaa aaggcaaatt ctttaatcaa ataaagcgca ttataaaatc 420
aaaaaanaaa naaaaaaaan aaaaaa                446
```

<210> 1026

<211> 189

<212> DNA

<213> Homo sapiens

<400> 1026

```
ctgtgagaga gatgctcaat atgccccagg ctatgacaaa gtcaaggaca tctcagaggt 60
ggtcacccct cggtttcttt gtactggagg agtgagtccc tatgctgacc ccaatacttg 120
```



cagaggtgat tctggcggcc ccttgatagt tcacaagaga agtcgtttca ttcaagttgg 180  
tgtaatcag 189

<210> 1027  
<211> 92  
<212> DNA  
<213> Homo sapiens

<400> 1027  
ccagaccctc cttagtagag gatctcggac cacaacacaa ggagtctcgt ggccttggat 60  
tcccagaccc taggatggta tccctctgac ag 92

<210> 1028  
<211> 438  
<212> DNA  
<213> Homo sapiens

<400> 1028  
ctgaaaagcc atctttgcat tgttctcat cgcctcctt gctcgccga gccgcctccg 60  
ccgcgcgcct cctccgcgc cgcggactcc ggcagcttta tcgccagagt ccctgaactc 120  
tcgcttttctt tttaatcccc tgcacggat caccggcgtg cccaccatg tcagacgcag 180  
ccgtagacac cagctccgaa atcaccacca aggacttaaa ggagaagaag gaagttgtgg 240  
aagaggcaga aaatggaaga gacgcccctg ctaacgggaa tgctaagag gaaaatgggg 300  
agcaggaggc tgacaatgag gtagacgaag aagagggaaga aggtggggag gaagaggagg 360  
aggaagaaga aggtgatggt gaggaagagg atggagatga agatgaggaa gctgagtcag 420  
ctacgggcaa gcgggcag 438

<210> 1029  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 1029  
ccagccgcat gggagtggag gcagtcacg ccttgctaga ggccaccccg gacacccag 60  
cttgcgctgt gtcactgaac gggaaccacg ccgtgcgcct gccgctgatg gactgctgac 120  
agatgactca ggatgtgcag aaggcgatgg acgagaggag atttcaagat gcggttcgac 180  
tccgagggag gagctttgag ggcaacctga acacctacaa gcgacttgcc atcaagctgc 240  
cggatgatca gatcccaaag accaatcgca acgtagctgt catcaacgtg ggggcacccg 300  
cggctgggat gaacgcggcc gtacgctcag 330

<210> 1030  
<211> 228  
<212> DNA  
<213> Homo sapiens

<400> 1030  
ctggagactc tggggccagga gaagctgaag ctggaggcgg agcttgccaa catgcagggg 60  
ctggtggagg acttcaagaa caagtatgag gatgagatca ataagcgtac agagatggag 120  
aacgaatttg tctcatcaa gaaggatgtg gatgaagctt acatgaacaa ggtagagctg 180  
gagtctcgcc tggaagggct gaccgacgag atcaacttcc tcaggcag 228

<210> 1031  
<211> 294  
<212> DNA

<213> Homo sapiens

<400> 1031

```
ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gctcacctca 60
ctaaccagta tatgcagaga atggcaagtg tacgagctgt gccaaccct gtaatcaacc 120
cctaccagcc agcacctcct tcaggttact tcatggcagc tatcccacag actcagaacc 180
gtgctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240
ctcagggtgc cagacctcat ccattccaaa atatgcccgg tgctatccgc ccag      294
```

<210> 1032

<211> 278

<212> DNA

<213> Homo sapiens

<400> 1032

```
ggaggtatta cagacagcac tgcactttgg agttgggcag ctacatcgag gacctctttg 60
tgggccacag tgacctctcc agcattgtga tcctggataa ctcccaggg gcttacagga 120
gccatccaga caatgccatc cccatcaaat cctggttcag tgaccccagc gacacagccc 180
ttctcaacct gctcccaatg ctgggtgccc tcaggttcac cgctgatgtt cgttccgtgc 240
tgagccgaaa cttcaccaa catcggtctt ggtgacgg      278
```

<210> 1033

<211> 155

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 9, 17, 31, 74, 75

<223> n = A,T,C or G

<400> 1033

```
cgcggttcanc catgttnaaa ccgattgcat naacttcgaa accggcccgc ccgcccgggc 60
ctggagaggg gcanngggag aagcagagag tttatcattc atctgtacac atagacgttt 120
cttcttttaa taacaccacg ggcgggagcc ccac      155
```

<210> 1034

<211> 401

<212> DNA

<213> Homo sapiens

<400> 1034

```
ctggaccagc accccattga cgggtacctc tcccacaccg agctggctcc actgcgtgct 60
cccctcatcc ccatggagca ttgcaccacc cgctttttcg agacctgtga cctggacaat 120
gacaagtaca tcgccctgga tgagtgggcc ggctgcttcg gcatcaagca gaaggatata 180
gacaaggatc ttgtgatcta aatccactcc ttccacagta ccggattctc tctttaacct 240
tccccttcgt gtttcccca atgtttaaaa tgtttgatg gtttggtgtt ctgcctggag 300
acaagggtgct aacatagatt taagtgaata cattaacggt gctaaaaatg aaaattctaa 360
cccaagacat gacattctta gctgtaactt aactattaag g      401
```

<210> 1035

<211> 333

<212> DNA

<213> Homo sapiens

<400> 1035  
 ctgagctggg ggttgaattt ctccaggcac tccctggaga gaggacccag tgacttgtcc 60  
 aagtttacac acgacactaa tctcccctgg ggaggaagcg ggaagccagc caggttgaac 120  
 tgtagcgagg cccccaggcc gccaggaatg gaccatgcag atcactgtca gtggagggaa 180  
 gctgctgact gtgattaggt gctggggctt tagcgtccag cgcagcccgg gggcatcctg 240  
 gaggtctctg tccttagggc atggtagtca ccgcgaagcc gggcacccgtc ccacagcatc 300  
 tcctagaagc agccggcaca ggagggaagg tgg 333

<210> 1036  
 <211> 198  
 <212> DNA  
 <213> Homo sapiens

<400> 1036  
 ccaatgtaca tgggtggacta tgccggcctg aacgtgcagc tcccgggacc tottaattac 60  
 tagacctcag tactgaatca ggacctcact cagaaagact aaaggaaatg taatttatgt 120  
 acaaaatgta tattcgata tgtatcgatg ccttttagtt tttccaatga tttttacact 180  
 atattcctgc caccaagg 198

<210> 1037  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 1037  
 ctggagatga tectcaacaa gccagggctc aagtacaagc ctgtctgcaa ccaggtggaa 60  
 tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattgtt 120  
 ctggttgctt atagtgtctt gggatcccac cgagaagaac catgggtgga cccgaactcc 180  
 ccggtgctct tggaggaccc agtcctttgt gccttggaac aaaagcacia gcgaacccca 240  
 gccctgattg ccctgcgcta ccagctacag cgtgggggtt tggtcctgg 289

<210> 1038  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<400> 1038  
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60  
 cttgaggtca ggagttcgag accagcctcg ccaacatggg gaaaccccat ttctactaaa 120  
 aatacaaaaa attagccaag tgtggtggca tatgcctgta atcccaacta ctcagaaggc 180  
 cgaggcagga gaattacttg aacgcaggag aatcactgca gcccaggagg cagaggttgc 240  
 agtgagccga gattgcacca ctgcactcca gcctgggtga cagagcaaga ctccatctca 300  
 gtaaataaat aaataaataa aaagcgtctg agtagctgtg gcctcaccct gaagtcagcg 360  
 ggcccagg 368

<210> 1039  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 226, 227, 246, 259, 390, 391

<223> n = A,T,C or G

<400> 1039

```
ctgggcctat gctggatcatg aacgggcctg gaaaatgact ccttccttc agtatctgca 60
tcctcatgaa gtcattcatt ttggagatcg tgtcttcact tttcttggtg aagaaactgc 120
tggatggagt tgttggtggc atctgaggag tccgaagatg gctctcaggg aaggttgtgc 180
tggcctctga aggatttga agctgactct gtctcctggg tagctnnatg ctcttggggt 240
cattgnttct cgggtttgnt tttttcttta tctggataaa actatgcatt tctgaaatca 300
gttttgacat ctggttcttt tttcctaagt cgaaagcaga aaagttggaa gcttatctcc 360
ttcttcacag ggggatattg tggacattgn nctgtcccca ctacatccat ttttct 417
```

<210> 1040

<211> 409

<212> DNA

<213> Homo sapiens

<400> 1040

```
ctgtccaatg gcaacaggac cctcactcca ttcaatgtca caagaaatga cgcaagagcc 60
tatgtatgtg gaatccagaa ctcatgtagt gcaaaccgca gtgaccaggt caccctggat 120
gtcctctatg ggccggacac ccccatcatt tccccccag actcgtctta cctttcggga 180
gcgaacctca acctctctg ccaactcggc tctaaccat cccgcagta ttcttggcgt 240
atcaatggga taccgcagca acacacacaa gtctcttta tcgcaaaat caccgcaaat 300
aataacggga cctatgcctg tttgtctct aacttgcta ctggccgcaa taattccata 360
gtcaagagca tcacagtctc tgcactctga acttctctg gtctctcag 409
```

<210> 1041

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 473

<223> n = A,T,C or G

<400> 1041

```
cctcggctcc acacctccgc tgtgaccaca gcctcaggtc aagctgtgct ggggccatcc 60
accttccttt gccatttaga agatggggct tggagcttgg caacacagaa attgacatca 120
gccttataaa accttggtctg aacctaccga cctccaggag aatttcagcc aaaacaaaaa 180
agcaaataca cagagggacc ctggaaccag aatccctccc catgggaaag acgaaggcac 240
agagattcga gccaaagtttc ccaacatgtt ggtgtttgca gaaaagtccg gtcacgtcac 300
acacagcaca gaggcaagaa gcgaaggcag tggcattcac aggactactt tatattaaag 360
tttattacat ttggaaaatc tactgtacag ggaaaaaccc attggattaa gtagagtttt 420
gccaaaagca aaagactatc actctttgga aaatattcct gattccagcc canggccag 480
ggtggggcca ca 492
```

<210> 1042

<211> 125

<212> DNA

<213> Homo sapiens

<400> 1042

```
cctggctctg atccagtgc cctctcacc aaagaactcg gtttaaccag ggctctgtaa 60
gaccactccc acccagagac ttgtgtggcc tgggtgtggc tgtgtgtcgg attccttct 120
```

gtcag

125

&lt;210&gt; 1043

&lt;211&gt; 459

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1043

```

ccagcctgga gataagggtg aaggtggtgc ccccggactt ccaggtatag ctggacctcg 60
tggtagccct ggtgagagag gtgaaactgg ccctccagga cctgctggtt tccctgggtgc 120
tcctggacag aatggtgaac ctggtggtaa gggagaaaga ggggctccgg gtgagaaagg 180
tgaaggaggc cctcctggag ttgcaggacc ccctggaggt tctggacctg ctggtcctcc 240
tggtcccaa ggtgtcaaag gtgaacgtgg cagtcctggt ggacctggtg ctgctggctt 300
ccctggtgct cgtggtcttc ctggtcctcc tggtagtaat ggtaaccag gacccccagg 360
tcccagcggg tctccaggca aggatgggcc ccaggtcct gcgggtaaca ctggtgctcc 420
tggcagccct ggagtgtctg gacaaaagg tgatgctgg 459

```

&lt;210&gt; 1044

&lt;211&gt; 368

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1044

```

cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttattttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
ggctcactgc aacctctgcc tcctgggctg cagtgtattct cctgcgttca agtaattctc 180
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
tttgtatttt tagtagaaat ggggtttcac catgttggcg aggtcgtctc cgaactcctg 300
acctcaagga tcctcctgcc tcggcctcct aaggtgctgg gattgcaggt gtgagccacc 360
acgtctggtg
368

```

&lt;210&gt; 1045

&lt;211&gt; 315

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1045

```

ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagaggcg 60
atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggcctcc 120
tggcagacct catgcaatgc cctccatggt aatattcatc agaaaatgga taattagggg 180
ggccagcaaa aatatcaagg gtcaaatatc gcacatttct gtttaggcca tctatggctt 240
tcattctctc tgaagtcaac tggaattcaa acacctgcac gttctgtctg atgcgctgct 300
cattgtagct cttgg
315

```

&lt;210&gt; 1046

&lt;211&gt; 317

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1046

```

cctgcctggt agggccccgg gcagcacagg gaggacgagc ttgtccagca gagggctctg 60
cagaggggtc cgcagagggt tgggcagggg gtctgacatc cctggctcct gctctggctc 120
tggtgcccgg gatttgcaca ggcccagggt catacagatg ccgtttgagt caatctggtt 180
ctggaagtag tcgatgacca gggggaagta gtcgtcaagc acttggttgc actggggcat 240

```

```
gagcagcttc aaggggagga cgttgcactc ctgctccagg aacttccctca ccgtgtcctg 300
gaaaatggcc tccttg                                     317
```

```
<210> 1047
<211> 412
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 183, 271, 287, 292, 294, 343
<223> n = A,T,C or G
```

```
<400> 1047
gtacaagctt tttttttttt tttttttttt tttgtttaat gcttgaactt tattttggag 60
agagaaattt agaaagacac aaggtacaca gagtaaaatg tttttctttt ttcaggacct 120
tgaactgaat cttgcactgc tttggtttct atctaggaag ctcagcgaca gcagagtctg 180
tanaggcggc cactgatttc acacaccccg gagagggact cacgggtagc acaacggccg 240
gttcggcaat agcaggtggc tcttgacctga naacctgagg ttctaanagc ananagtcca 300
tttctgcaa aggagatagc aaggtcctgg ttgtcttccc canactgctt ctgggttgta 360
gcctcatcag ctctttcctg gagtgactca gcctgggcct gcagggccac ca 412
```

```
<210> 1048
<211> 476
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 267, 336, 344, 360, 395, 419, 420, 430, 441
<223> n = A,T,C or G
```

```
<400> 1048
taaaaaaagg aaaaagtttt attacgaaac tagtttgtat aaaacagggt tatacatatt 60
tttgtaagtt tgtaataaaa cagtaagaaa aaaaggcagt aatagaaatc tccaaaaggc 120
aacctatcaa aaccaactgg ctgccacttt gagtttggac agtagctgca taaactttgt 180
tcttcttgaa cagtatttaa taacatcatt aatacattaa caacatttct ataaagtaag 240
acacattggg gctgaagtac aactggnggc ctcttgatct cacctatgag gagagttctt 300
tacaaaacca catagggaaa attgcagttg taaggngaac tacncatcta aaatatgcan 360
aggtaatagc attacatggt aaaggtatca aggnatata cacattttaa accatttggn 420
acaaaacttn tataaaattt ntttctctct ctttctctct tatgcacaaa aaatat 476
```

```
<210> 1049
<211> 274
<212> DNA
<213> Homo sapiens
```

```
<400> 1049
cctggctgag caggcagagc accctgggac cccagggcag aaggaccctt gccctccagt 60
ccccagacc caggcccgtc tccactcata cacgccacct acatgtgacg tcagccctga 120
aaaggtaaca ggaaagttca gaacaaaaac aaaaccccaa aagtaaaaag gctacgtgta 180
gcagagtaat accggaaaac ttatatacac aggcggtgat ggccccctcg gaagtgtccg 240
ggtcacttag ggggcactgc agaggtcctt gtgg 274
```

<210> 1050  
 <211> 472  
 <212> DNA  
 <213> Homo sapiens

<400> 1050  
 ctgcagcctg ggactgaccg ggaggctctg attattttacc caccacaggt aggttgtggt 60  
 ctgaatctca ggttcacagg ttaaggctac agcatcctca tcctccacgg ggttggagtt 120  
 gttgctggtg atgaagggtt tgggtggctc tgcatagact gtgatcgtcg tgactgtggt 180  
 cctattgagg ccagtgtctg agttatgggc ttggcacgta taggatccac tattattcac 240  
 agtgatggtg gggataaaga gctcttgggt ggattgctgg aaagtcccat tgacaaacca 300  
 agagtactgt gcagggtgggt tagaggctgc gtggcaggag aggttcagat tttcccctga 360  
 tctgtaagat gtgttttagag gggaaatggt gggggcatcc gggccataga ggacattcag 420  
 gatgactgaa tcactgcgcc tggcactcac tgggttctgg gtttcacatt tg 472

<210> 1051  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 1051  
 ccaccaaccg tggcatcacg cgaatccggg gcaccagcta ccagagccct cacggcatcc 60  
 ccatagacct gctggaccgg ctgcttatcg tctccaccac ccctacagc gagaaagaca 120  
 cgaagcagat cctccgcacg cgggtgcgag aagaagatgt ggagatgagt gaggacgct 180  
 acacggtgct gacccgcacg gggctggaga cgtcactgcg ctacgccatc cagctcatca 240  
 cagacctgc 249

<210> 1052  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 1052  
 ccaggaccac aaccccacgc tgtagctggt agcgcagggc aatcagggct ggggttcgct 60  
 tgtgtttttt tgccaaggca caaaggactg ggtcctccaa gagcaccggg gagttcgggt 120  
 ccacccatcg tttgtctcgt tgagatccca gagcactata ggcaaccaga acaatatctt 180  
 tcgacttgca gaaatctagc aatttactcc ggttgaaata cggatgacat tctacctggt 240  
 tgcagacagg cttgtacttg agtcctgggt tgttgaggat catctccag 289

<210> 1053  
 <211> 199  
 <212> DNA  
 <213> Homo sapiens

<400> 1053  
 ccacgactgc atgcccgccg ccgccagggtg atacctccgc cggtgaccca ggggctctgc 60  
 gacacaagga gtctgcatgt ctaagtgcga gacatgctca gctttgtgga tacgcggact 120  
 ttggttgcgc ttgcagtaac cttatgccta gcaacatgcc aatctttaca agaggaaacc 180  
 gtaagaaagg gcccgaccg 199

<210> 1054  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1054
tcgaccctgt gaagcaggag acagatgctg ctttttcaact gttgtttgtc ctctgttttt 60
gtagcatccc cgggaacttc cccatcagcc aggggcttgt cccaccacc cttcacctgg 120
ctttccagtt ggctgagacg ctgcttcac ttcacatctggg tggcgttgta ctcagccagg 180
aggcgtgcaa acctggctctg cagggcgctc agggaggacc ccag 224

```

```

<210> 1055
<211> 390
<212> DNA
<213> Homo sapiens

```

```

<400> 1055
cctcttatta gggctctggt agcggcgggc gcgaccctt ggggtctgga cgcaacggcg 60
gcgggagcat gaacgcccct ccagccttcg agtcgttctt gctcttcgag ggcgagaaga 120
agatcaccat taacaaggac accaaggtac ccaatgcctg tttattcacc atcaacaaag 180
aagaccacac actgggaaac atcattaaat cacaactcct aaaagaccgc caagtgctat 240
ttgctggcta caaagtcccc cacccttgg agcacaagat catcatccga gtgcagacca 300
cgccggacta cagccccag gaagcctttg ccaacgccat caccgacctc atcagtgagc 360
tgtccctgct ggaggagcgc tttcgggtgg 390

```

```

<210> 1056
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 21, 22, 230, 232, 377, 391
<223> n = A,T,C or G

```

```

<400> 1056
ccagcatcac cttttggctc nnacactcca gggctgccag gagcaccagt gttaccogca 60
ggacctgggg gcccatcctt gcctggagaa ccgctgggac ctgggggtcc tgggttacca 120
ttactaccag gaggaccagg aagaccacga gcaccaggga agccagcagc accaggcca 180
ccaggactgc cacgttcacc tttgacacct tggggaccag gaggaccagn angtcagaa 240
cctccagggg gtctgcaac tccaggaggg cctccttcac ctttctcacc cggagcccct 300
ctttctcctt taccaccagg ttcaccattc tgtccaggag caccagggaa accagcaggt 360
cctggaggggc cagtttnacc tctctcacca nggtaccac gaggtccagc tatacctgga 420
agtccggggg caccaccttc acccttacct 450

```

```

<210> 1057
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 1057
tgagcgcccg cccggcaggc cctcgccctg agggccccgg gcagcacagg gaggacgagc 60
ttgtccagca gagggtctgg cagagggtcc cgcagaggtt tgggcagggg gtctgacatc 120
cctggctcct gctctggctc tggctgccgg gatttgaca ggcccagggt catacagatg 180
ccgtttgagt caatctgggt ctggaagtag tcgatgacca gggggaagta gtcgtcaagc 240
acttggttgc actggggcat gagcagcttc aaggggagga cgttgcactc ctgctccagg 300
aacttcctca tcgtgtcctg gaaaatggcc tccttgg 337

```



<210> 1058  
 <211> 237  
 <212> DNA  
 <213> Homo sapiens

<400> 1058  
 ctggggactg ggaatgctag catatggtat ctcaagttgg ctctcagaac taaacgggga 60  
 taagggccta gaatggaaga gggaaccagc cagaccctca gtccttcctg tccctggactg 120  
 ggagccacag atgtccctgt gatctgtcac tgccctgata tgggtcttca gccattaaag 180  
 ctcaagtgtca tcttcagtca ccaacggggg tcttgggtgc ctcccaaacc cctttgg 237

<210> 1059  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 169, 170  
 <223> n = A,T,C or G

<400> 1059  
 agcccatccc cccggctccc tccctagctg cccctgcgtcc tctgtccccg ggtttcagag 60  
 acaacttccc aaagcacaaa gcagtttttc cccctagggg tgggaggaag caaaagactc 120  
 tgtacctact ttgtatgtgt ataataattt gagatgtttt taattattnn gattgctgga 180  
 ataaagcatg tggaaatgac ccaaaaaaaaa 210

<210> 1060  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 1060  
 ctggccacag agcccagcaa gtccttcctg ggagagaaga gttagggctg atactgaagg 60  
 tctctttcac atctgggcac acgtctgcct tcaggctgta agaatttcac ttgtcgattg 120  
 ttaaataaaa ccaggagaaa gcaatgcagg tctctgggaa tctcatccct tccataagga 180  
 aaatgctctg ccaattcaag ttctattcag tcaggaagac agaaggattt aaggcttcgg 240  
 tgacaattat aatcctctga gaaattattt ccccttaaag tcaagataag ataatagtgt 300  
 ttactgtact ttctcttgac tcttgaaatc cctgggtattg ggtgtaggca acttgcacct 360  
 gcaatgaagt ccgcaggaga ggaaggtctc tcctcccccg aaagctatcc caggtcacat 420  
 gcgtggcgaa tgcccactga acctcggtc tcattggaagc aggaaagaca ccgagattca 480  
 agccttctag taggttgagg acgctgtgct catggcatct tcggagattt tgggtactggc 540  
 aggggtggat gcttgcaaaa tact 564

<210> 1061  
 <211> 267  
 <212> DNA  
 <213> Homo sapiens

<400> 1061  
 cctatggagg tgccatgat gtcattgagct ctaagcacct ttgtgggtgat accaactatg 60  
 cctggccccc cgcagagatt gcggtcatgg gagcaaaggc cgctgtggag atcatcttca 120  
 aagggcata gaatgtggaa gctgctcagg cagagtacat cgagaagttt gccaacccct 180  
 tccctgcagc agtgcgaggg tttgtggatg acatcatcca accttcttcc acacgtgccc 240

gaatctgctg tgacctggat gtcttgg

267

<210> 1062

<211> 603

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 533, 592

<223> n = A,T,C or G

<400> 1062

```
ctggtcacatc  tgtcatgtga  agaccatctt  cctacagagt  ctaggctggc  cgtcggttgaa  60
gtcctcacca  gtactacacc  acttttcctc  accaaccccc  atcctattct  tgagttgcag  120
gatacacttg  ctctctggaa  gtgtgtcctt  acccttctgc  agagtgagga  gcaagctgtt  180
agagatgcag  ccacggaaac  cgtgacaact  gccatgtcac  aagaaaatac  ctgccagtca  240
acagagtttg  ccttctgcc  ggtggatgcc  tccatcgctc  tggccctggc  cctggccgctc  300
ctgtgtgatc  tgctccagca  gtgggaccag  ttggccctcg  gactgcccac  cctgctggga  360
tggctgttgg  gagagagtga  tgacctcgctg  gcctgtgtgg  agagcatgca  tcaggtggaa  420
gaagactacc  tgtttgaaaa  agcagaagtc  aacttttggg  ccgagaccct  gatctttgtg  480
aaatacctct  gcaagcacct  cttctgtctc  ctctcaaaag  tccggctggc  gtnccccaag  540
ccctgagatg  ctctgtcacc  ttcaaaggat  ggtgtcagag  cagtgccacc  tncgtgtctca  600
gtt  603
```

<210> 1063

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1063

```
ccatcgctgga  tcaactgagat  gcagtggcgg  tccccgtagc  tggcccgctgg  catgccaccc  60
tggaagatgg  tgaagggcaa  cccctgccta  gtggtcagcc  ggaggattct  ggtaatcgct  120
ttgcaaggaa  agggaccgta  aggcacgagg  ctgcggaggg  gctctgggtg  ctgggcttcg  180
ctggacacgg  gccactggca  gtatctgccg  tcagagtgcac  ag  222
```

<210> 1064

<211> 72

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 13, 14

<223> n = A,T,C or G

<400> 1064

```
gatgatcaat  atnnactgga  acacatgcat  gcttttggaa  tgtataatta  cctgcactgt  60
gattcatggt  at  72
```

<210> 1065

<211> 251

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1065

```
gtggccgtga tggatagcga caccacaggc aagctgggct ttgaggaatt caagtacttg 60
tggaacaaca tcaaaagggtg gcaggccata tacaacagct tcgacactga ccgatcaggg 120
accatttgca gtagtgaact cccaggtgcc tttgaggcag caggggtcca cctgaatgag 180
catctctata acatgatcat ccgacgctac tcagatgaaa gtgggaacat ggattttgac 240
aacttcatca g 251
```

&lt;210&gt; 1066

&lt;211&gt; 289

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1066

```
ctggagatga tcctcaacaa gccagggctc aagtacaagc ctgtctgcaa ccaggtggaa 60
tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattgtt 120
ctggttgcct atagtgtctt gggatccac cgagaagaac catgggtgga ccggaactcc 180
ccagtgtctt tggaggaccc agtcctttgt gccttggcaa aaaagcacia gcgaacccca 240
gccctgattg ccctgcgcta ccagctacag cgtggggttg tggtcctgg 289
```

&lt;210&gt; 1067

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1067

```
ctgtagttga ctgaagtcgc taaacaggac ggatttaagt agaggtgata tgtccagtc 60
ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggg agacatcagg 120
caaagctctc catgttaata ttcactctgaa tatggataat tagggtggct agcaaaacta 180
tcaactgttaa aatagtggag atttctgtct aggccatcta tggcttccat gtcctccgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g 301
```

&lt;210&gt; 1068

&lt;211&gt; 255

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1068

```
ccagcagttc ctctttgcct tatatttgtg gtacgcccg ccagccttca agatggggtt 60
gtcaattcgg ccacctccag ccaccacacc aaccacagct ctgttggctg aggagataac 120
cttcttggag ccggagggca gcttcacacg ggtcttcttg gtctcagggg tgtgggagat 180
aacggtggca tagttccctg atgccgggc cagcttgcca cggctcctcag gcttctcctc 240
caggcagcac acgat 255
```

&lt;210&gt; 1069

&lt;211&gt; 77

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1069

```
ctggacaggc tccagcacgg gcccaaacac gccagacct cggcaggcac cacctgggtc 60
tcccacccag aaagttc 77
```

<210> 1070  
 <211> 163  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 12, 108, 109, 137, 147, 148  
 <223> n = A,T,C or G

<400> 1070  
 ctgctgggat gncgtgccaag tttttcagcc ataaggtagc gaaatctagc agaatccaga 60  
 ttacatccac ttccaatcac gcggtgtttg ggtaatccac ctagtttnna ggtaacatac 120  
 gtaagaatgt ccaactgngtt ggaaacnca attatgatgc aat 163

<210> 1071  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 14  
 <223> n = A,T,C or G

<400> 1071  
 ctgaccggac cggncatgcc cgtccggaac gtctataaga aggagaaagc tcgagtcac 60  
 actgaggaag agaagaattt caaagccttc gctagtctcc gtatggcccg tgccaacgcc 120  
 cggctcttcg gcatacgggc aaaaagagcc aaggaagccg cagaacagga tgttgaaaag 180  
 aaaaaataaa gccctcctgg ggacttggaa tcagtcggca gacaaaaaaaa aaaaaaaaaa 240  
 aacaaa 246

<210> 1072  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 143  
 <223> n = A,T,C or G

<400> 1072  
 ctgccctgac agagcgctcc ttgatgggca tggactggaa aggatcccag gaatacaaga 60  
 aggcagaaaa aaaagtgttg aagatcttta aatctgacag tgaagtggct gggtacatcc 120  
 ggcaagcggg tgacttccat cangtaatta ttcgaggtgg aggacatatt ttaccctatg 180  
 accagcctct gagagctttt gacatgatta atcgattcat ttat 224

<210> 1073  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<400> 1073

1070 1071 1072 1073

```

ctgtagttga ctgaagtcgc taaacaggac ggattttaagt agaggtgata tgtccagtca 60
ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggg agacatcagg 120
caaagctctc catgttaata ttcattctgaa tatggataat taggggtggct agcaaaaacta 180
tcactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g 301

```

```

<210> 1074
<211> 132
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 41, 47, 56, 69, 78, 93
<223> n = A,T,C or G

```

```

<400> 1074
caagcttttt tttttttttt tttttttttt ttcgctcaaa nactttnttt tattantaca 60
tgggctggna ttgatggnaa gggacaaatg tanttggcaa ccatgggttag catcgggatgc 120
ccatcccaat gg 132

```

```

<210> 1075
<211> 301
<212> DNA
<213> Homo sapiens

```

```

<400> 1075
ctgtagttga ctgaagtcgc taaacaggac ggattttaagt agaggtgata tgtccagtca 60
ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggg agacatcagg 120
caaagctctc catgttaata ttcattctgaa tatggataat taggggtggct agcaaaaacta 180
tcactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g 301

```

```

<210> 1076
<211> 436
<212> DNA
<213> Homo sapiens

```

```

<400> 1076
ctgctgggat gaatgccaa tttttcagcc ataaggtagc gaaatctagc agaatccaga 60
ttacatccac ttccaatcac gcggtgtttg ggtaatccac ctagtttcca ggtaacatac 120
gtaagaatgt ccaactgggtt ggaaaccaca attatgatgc aatcaggact gtacttgacg 180
atctgaggaa taatgaattt gaagacatta acatttctct gcaccagatt gagccgactc 240
tccccctctt gctgacggac tcttgcagtt actactacaa tcttagaatt ggcggtcaca 300
gaataatctt tatctgccac aatttttaggt gtctgaagaa ataagctccc atgctgcaga 360
tccatcattt ctcttttaag cttatcttcc aaaacatcca caagagcaag ttcattcagcc 420
agagactttc ccagaa 436

```

```

<210> 1077
<211> 256
<212> DNA
<213> Homo sapiens

```

<400> 1077

```
ctgaagatta ataggaaaca gtgaaaaagc aacgtcctgt gatcagtaac tttaaagaca 60
agcttggttc tctctttctg gcactactga cattcccacc attctagctt ccgaattctg 120
gaaaaagaga agatgattaa caaaaataga gaatgtagaa acttctgggt ttgtgcctac 180
aggattggca ccagaccctc agtgctcact tgctccatct acaaggcagc acccctccca 240
gaggcagcca gggagg                                     256
```

<210> 1078

<211> 202

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 8, 10, 26, 67, 71, 77, 84, 93, 127, 133, 144

<223> n = A,T,C or G

<400> 1078

```
ctgtgctncn caaccagatc catgtnaagt gccccgcccc gagaaggagg ccagggggag 60
ctgactncag ncaacancca gtgnccggat gancaccaac atgtgagggg tgaaccttgg 120
cctccangac atntgcaccc cctncccacc tccacggacc tcggacctcc aggcggctca 180
gtgctgctg cggccagct aa                                     202
```

<210> 1079

<211> 170

<212> DNA

<213> Homo sapiens

<400> 1079

```
gcgctttctcg ggcaccgtca ggcttaagtc cactccccgc cctaagttct ctgtgtgtgt 60
cctgggggag cagcagcact gtgacgaggc taaggccgtg gatatcccc acatggacat 120
cgaggcgctg aaaaaactca acaagaataa aaaactggtc aagaagctgg 170
```

<210> 1080

<211> 494

<212> DNA

<213> Homo sapiens

<400> 1080

```
cctgcggcaa agagatgcgc ttattgagaa acatggctta gttataatcc ccgatggcac 60
tcccaatggt gatgtcagtc atgaaccagt ggctggagcc atcactgttg tgtctcagga 120
agetgctcag gtcttgaggt cagcaggaga agggccatta gatgtaaggc tacgaaaact 180
tgctggagag aaggaagaac tactgtcaca gattagaaaa ctgaagcttc agttagagga 240
ggaacgacag aaatgctcca ggaatgatgg cacagtgggt gacctggcag gactgcagaa 300
tggtcagac ttgcagttca tcgaaatgca gagagatgcc aatagacaaa ttagcgaata 360
caaatttaag ctttcaaaag cagaacagga tataactacc ttggagcaaa gtattagccg 420
gcttgagggg caggttctga gatataaaac tgctgctgag aatgctgagg aaagtgaag 480
atgaattgaa agca                                     494
```

<210> 1081

<211> 123

<212> DNA

<213> Homo sapiens

<400> 1081  
 ctgctgctat taagttgcaa gctctacagc tagctacatg actgatggat cagtttgaga 60  
 tttgttcctt tgtcaaaagt ttaactctga tagaagggtg gcctcacatt ctgatgtttg 120  
 gac 123

<210> 1082  
 <211> 297  
 <212> DNA  
 <213> Homo sapiens

<400> 1082  
 cctgcacttg aacatggctt tggttttaag caacttctct accctgaccc tctctctggg 60  
 acagcgtttc gggagggttc ttggcctcac tgagagggat gtggagctgc tgtaccccg 120  
 caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180  
 caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240  
 tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

<210> 1083  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<400> 1083  
 ctggggccacg aggacaccac cagcttgatg cggcctcgcc gtgtggaata ctttgtagat 60  
 aagcaactcc aagtaaaggc tgtcacctgt gggcctgga acacctacgt gtatgctgtg 120  
 gagaaaggga agagctgaca tgtgtacgta tatgtatatg caacacctgt gagaccccca 180  
 ttcagggtcaa ggaaaacat tgccctgcacc ccaagggccc catatttgcc cctccccatc 240  
 acagtctctgc ctttcacctt caagcacggc cctaaacttg tctgcacttt agaaacacct 300  
 ggagagcatt gaaaactctg ctgcctaagg tcagcatcaa tcaaaacaat gaaatcaatg 360  
 aaacaatgaa accagagctt ctagggtgtg ggctggata gtggtagatt caaagctcca 420  
 cccacctcat cccaggtaca tttgatgtgc ag 452

<210> 1084  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<400> 1084  
 ctgtagttga ctgaagtcgc taaacaggac ggatttaagt agaggtgata tgtccagtca 60  
 ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggt agacatcggg 120  
 caaagctctc catgttaata ttcattctgaa tatggataat tagggtggct agcaaaacta 180  
 tcaactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240  
 gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300  
 g 301

<210> 1085  
 <211> 369  
 <212> DNA  
 <213> Homo sapiens

<400> 1085  
 ctgttttcca tggggccacca ggcggctcag gacagcaaac gtctcatccc ctctcaggat 60  
 gtacttctcc atgtcctgct cgatccactg gtacatgagg cccttcacat gcacgtctcg 120

```

gatggcgctcc gtcacgtcct tgtagagatg tgcttggtca aactccaggc tgtggcccag 180
aaagtagtcc accacacagg acagcagagc catctccggt agcgagaaga tgtccatgaa 240
ctgcttaatg gagggacct tgccatagaa gccactcatc tggatatagt ggatgtgctg 300
ggtacccccca tacagctcaa tcacctcctc gtctggcaca ggctggaggg ccctgtaggc 360
tgtccccag                                     369

```

```

<210> 1086
<211> 316
<212> DNA
<213> Homo sapiens

```

```

<400> 1086
cctcagaggt ttctccacag tcctcttctg ggcaaattct tgtttcttca catgccggac 60
tagcttaaga ccaatgcagt agcttatttc caagccttgc aaagtatata atatctaaga 120
ggaaagggtt tgatcatcca gcgttggtcca ctttgtgggg ctttgtaggt agacggagcc 180
acactacagg cagggatga gcagagggat gtatggagtg tgggtgactc tgagcctcac 240
tgccgctgca aggtggggaa actgtaagtg aaccctgtg ggtgcggggg agggatatccg 300
gtgcgcaggg aggtgg                                     316

```

```

<210> 1087
<211> 329
<212> DNA
<213> Homo sapiens

```

```

<400> 1087
cctgcagggg atgggacctt ccagaagtgg gcgtctgtgg tgggtgccttc tggacaggag 60
cagagataca cctgccatgt gcagcatgag ggtctgccca agccctcac cctgagatgg 120
gagccgtctt cccagccac catccccatc gtgggcatca ttgctggcct ggttctcttt 180
ggagctgtga tcgctggagc tgtggtcgct gctgtgatgt ggaggaggaa gagctcagat 240
agaaaaggag ggagctactc tcaggctgca agcagtgaca gtgccaggag ctctgatatg 300
tctccacag cttgtaaagt gtgagacag                                     329

```

```

<210> 1088
<211> 342
<212> DNA
<213> Homo sapiens

```

```

<400> 1088
ccactcactg ctgggaccca ggcacctccc ttctccatcc tctctggatt gtcagtaatg 60
tcctggaaca gaagcctgtg ggatggcctt gggcacggag aagccctggg gtcagtgtcg 120
tgacaggatg gcggcagtgt tgaaccagg aggtgaacc cggcccaacca cggaagatga 180
gtgcatggca accgcctgcc ttacagtgc tccacttggg aacccaagg tctgggctgt 240
tctaggtatt gcttcacgtg cccagcaag cccttaacaa gagggcctgg ttccctgaag 300
aaccaatccc aggaaggggc cttgatccct ccgccttget ga                                     342

```

```

<210> 1089
<211> 51
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 18
<223> n = A,T,C or G

```



<400> 1089  
ccttgtgttc agtctccncg ctcttcttgc cactgttgag ggtggagatg t 51

<210> 1090  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 1090  
cctggggagg ccctagggga gcaccgtgat ggagaggaca gagcaggggc tccagcacct 60  
tctttctgga ctggcggtca cctccctgct cagtgccttg gctccacggg caggggtcag 120  
agcactccct aatttatgtg ctatataaat acgtcagatg tacatagaga tctatttttt 180  
ctaaaacatt cccctcccca ctctctctcc acagagtgtt ggactgttcc aggcctcca 240  
gtgggctgat gctgggaccc ttaggatggg gctcccagct cctttctcct gtgaatggag 300  
gcagagacct ccaataaagt gccttctggg ctttttctaa cctttgtctt agctacctgt 360  
gtactgaaat ttgggccttt ggatcgaata tggtaagag gttggagggg aggaaaatga 420  
aggtctacca ggctgagggg gagggcaaag gctgacgaag agggaaagtt acagatttcc 480  
tgtagcaggt gtgggcttac agacacatgg actgg 515

<210> 1091  
<211> 277  
<212> DNA  
<213> Homo sapiens

<400> 1091  
ggtgccgga gccacgggtg gtcattggctg ccagagcgct ctgcatgctg gggtgggtcc 60  
tggtcttgct gtctccagc tctgctgagg agtacgtggg cctgtctgca aaccagtgtg 120  
cgtgcccagc caaggacagg gtggactgct gctaccccca tgcacccccc aaggagtgc 180  
acaaccgggg ctgctgcttt gactccagga tccctggagt gccttgggtg ttcaagcccc 240  
tgcaggaagc agaatgcacc ttctgaggca cctccag 277

<210> 1092  
<211> 368  
<212> DNA  
<213> Homo sapiens

<400> 1092  
cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60  
ttatttactg agatggagtc ttgctctgtc acccaggctg gattgcagtg gtgcaatctc 120  
ggctcactgc aacctctgcc tcttgggctg cagtgattct cctgcgttca agtaattctc 180  
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240  
tttgattttt tagtagaaat ggggtttcac catgttggcg aggtcgtct cgaactcctg 300  
acctcaagga tctctctgcc tgggcctcct aaggtgctgg gattgcaggt gtgagccacc 360  
acgtctgg 368

<210> 1093  
<211> 459  
<212> DNA  
<213> Homo sapiens

<400> 1093  
ctgtgcatgg agccatttgg atggcgggcg gcgggggggg attctctgta tcaggagtga 60  
ctttgttgcc ccacacagcc tctgctgca ggtgcttttg aaagagatgc tgccttgagg 120

```

ctggtgaatc tgtggaccac attcaagggt gtggcacagg catcttccca tccttttcac 180
tccgaatcgc tggcgacaca ttctcctttc cagctaggaa agggttcctc gcggttggtt 240
tagattgtgg ttgtttgttt tgcttctact aagactgttt tgtttcaaaa aggaaacaag 300
ttttgtgttt gctgtctacg ctggagtcct gaactgtggg tagaaaacac gacctggctt 360
tgtagaaagg acacagggtt gttttatgaa ctaagcgggt aggctcaggt ggcggctctc 420
acagagcccc tgatgctgtt gttctttgag ggcttaagg 459

```

```

<210> 1094
<211> 610
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 590
<223> n = A,T,C or G

```

```

<400> 1094
ccatgcaaaa ggaggtggtg cactcagtgc agtcgctgcc acaaaaagtc cgattatttt 60
cattggtaca ggggaacata tagatgactt tgaacctttc aaaacacagc cttttattag 120
caaacttctt ggtatgggag acattgaagg actgatagat aaagtcaacg agttgaagtt 180
ggatgacaat gaagcactta tagagaagtt gaaacatggt cagtttacgt tgcgagacat 240
gtatgagcaa tttcaaaata tcatgaaaat gggccccttc agtcagatct tggggatgat 300
ccctgggtttt gggacagatt ttatgagcaa aggaaatgaa caggagtcaa tggcaaggct 360
aaagaaatta atgacaataa tggatagtat gaatgatcaa gaactagaca gtacggatgg 420
tgccaaagtt tttagtaaac aaccaggaag aatccaaaga gtagcaagag gatcgggtgt 480
atcaacaaga gatgttcgag aacttttgac acaatatacc aagtttgac agatggtaaa 540
aaagatggga ggtatcaaag gacttttcaa aggtgggcga catgtctaan aatgtgagcc 600
agtcacagat 610

```

```

<210> 1095
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<400> 1095
ccttattttct cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctgtt atccctaggg taacttgttc cg 232

```

```

<210> 1096
<211> 377
<212> DNA
<213> Homo sapiens

```

```

<400> 1096
ccacgctcat ggaaaccacc caaggacagc cagagtccac attccctggc aagctgggtg 60
tattcttoca aaagtttccc acccagtggt tcagacaggt gtagcgtctc tgcagggtcc 120
cgtgcaatga agtcaaatgc ctcaggcagg aaagccaggc aggcacccag tctggcagcc 180
tctcgaacca gccacgcaca tgttttaaaag ttctgttgct tgtctggcgt cgatgttacc 240
tggcacacag ccaccagggg cagttcgcag gaggaagagg agatagccat ggctctgggc 300
ctgggctgag cacaaagtac tgagagttga ggtatccgga gtccaggaca cagaagggac 360
aggaatctgt gaggagg 377

```

<210> 1097  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 1097  
 ccacgccatg gggctggagc actcccaaga ccctgggggc ctgatggcac ccatttacac 60  
 ctacaccaag aacttccgtc tgtcccagga tgacatcaag ggcatcagg agctctatgg 120  
 ggcctctcct gacattgacc ttggcaccgg cccaccccc acactgggccc ctgtcactcc 180  
 tgagatctgc aaacaggaca ttgtatttga tggcatcgct cagatccgtg gtgagatctt 240  
 cttcttcaag gaccggttca tttggcggac tgtgacgcca cgtgacaagc ccatggggcc 300  
 cctgctggtg g 311

<210> 1098  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<400> 1098  
 ccacccacgc ttaggttccc atcacactga tgactccggg tttggcgagc acaggagcgc 60  
 aaaccttttc acattctttc tgtgatccaa atttgttttc gtttccacca caacctccat 120  
 accagaatct tgcacagctt ttggtgtttg gatcatagta ccattttaat atgaaatccc 180  
 tgcaagttcc ttcgtctttc ggcaacttgc atatatctgt ttcagtgaga gccaatgggt 240  
 ctgtgctcac cattagattg atggttgaac tagaagctga ccttgctggc tgtggagggtg 300  
 ggggctgaga tttcttttga ctgaaacttc cgtggtaggt ggctctgacc tgagacctca 360  
 ggtagcagac cacagccaca tggtatgtct gccagcggag cagg 404

<210> 1099  
 <211> 442  
 <212> DNA  
 <213> Homo sapiens

<400> 1099  
 ccatgggatg gctcttctga ccattggggg ccaggccagg ccaggccagg cttagggtag 60  
 caaggaccag gccaaagggg cagggcctcc tttggagggg ttgaggggta catcctcggc 120  
 tgggtgtttgc atccaggggt ccagcaggat ctcttccagt gagggtcggg aagaagggtt 180  
 gggggccagg caccggcgga ttagggcaca gcagtctggg gagacatggg ctgggaagtg 240  
 gagctcagct tccagaatct cctggctcct ctcaaaggga atgtccccac acaccatgtc 300  
 atagaggagg atgccagtg accagacagt ggccgggagt gcatggtact ggtgtcgaga 360  
 gatccactct ggggggctgt acacccttgt cccatcaaag tcagtgtagg gttcatcatg 420  
 aagcagggca ccaggaacca aa 442

<210> 1100  
 <211> 191  
 <212> DNA  
 <213> Homo sapiens

<400> 1100  
 ccacgaaaat caatgagaag ccacaggtga tcgcggacta tgagagcgga cggggccatac 60  
 ccaataacca ggtgcttggc aaaatcgagc gggccattgg cctcaagctc cggggaaagg 120  
 acattggaaa gcccatcgag aagggggcta gggcgaaatg aacacaaaagc ctcgaaatca 180  
 gtgcgctcca g 191

<210> 1101  
 <211> 178  
 <212> DNA  
 <213> Homo sapiens

<400> 1101  
 cgggtacttt ggtggacatg aaggaactgg gcatatggga gccattggct gtgaagctgc 60  
 agacttataa gacagcagtg gagacggcag ttctgctact gcgaattgat gacatcgttt 120  
 caggccacaa aaagaaaggc gatgaccaga gccggcaagg cggggctcct gatgctgg 178

<210> 1102  
 <211> 209  
 <212> DNA  
 <213> Homo sapiens

<400> 1102  
 agccaggcta gtgacagaaa tggattcgaa atatcagtgt gtgaagctga atgatgggtca 60  
 cttcatgcct gtccctggat ttggcaccta tgcgcctgca gaggttccta aaagtaaagc 120  
 tttagaggcc accaaattgg caattgaagc tggttccgc catattgatt ctgctcattt 180  
 atacaataat gaggagcagg ttggactgg 209

<210> 1103  
 <211> 396  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 351  
 <223> n = A,T,C or G

<400> 1103  
 ctatagggct cgagggccgc ccgggcaggt ggtgcctcta atactgggtga tgctagaggt 60  
 gatgtttttg gtaaacaggc ggggtaagat ttgccgagtt ctttttactt tttttaacct 120  
 ttccattatga gcatgcctgt gttgggttga cagtgggggt aataatgact tgttggttga 180  
 ttgtagatat tgggctgtta attgtcagtt cagcgtttta atctgacgca ggcttatgca 240  
 gaggagaatg ttttcatgtt acttatacta acattagttc ttctataggg tgatagattg 300  
 gtccaattgg gtgtgaggag ttcagttata tgtttgggat tttttaggta ntgggtgttg 360  
 agcttgaacg ctttcttaat tgggtgctgc tttagg 396

<210> 1104  
 <211> 342  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 224, 226, 302  
 <223> n = A,T,C or G

<400> 1104  
 ctgctgatac ccaggcagta gctgatgctg tcacctacca gctcggtttc cacagcattg 60  
 aactgaatga gctccactg gtccacacag cagccagcct cttaaggag atgtgttacc 120  
 gataccggga agacctgatg gcgggaatca tcatcgcagg ctgggaccct caagaaggag 180

```

ggcaggtgta ctcaagtgcct atgggggggta tgatgggtaag gcantncttt gccattggag 240
gctccgggag ctctacatc tatggctatg ttgatgctac ctaccgggaa ggcatgacca 300
angaagagtg tctgcaattc actgccaatg ctctcgcttt gg 342

```

<210> 1105

<211> 551

<212> DNA

<213> Homo sapiens

<400> 1105

```

ctggggccac tgtcggcatc atgattggag tgctggttgg ggttgctctg atatagcagc 60
cctggtgtag tttcttcatt tcaggaagac tgacagttgt tttgcttctt ccttaaagca 120
tttgcaacag ctacagtcta aaattgcttc tttaccaagg atatttacgg aaaagactct 180
gaccagagat cgagaccatc ctagccaaca tcgtgaaacc ccatctctac taaaaatata 240
gaaattagct ggacatggtg gcatgtgcct gtaatcccag ctactcagga ggctgaggca 300
gggaaactgc ttgaacaggg acccgggagg cggagattgg agtgagccga gatcgcgcca 360
ctgcactcca gtctgggcta cacagtgaga ctctgtctca agaaaaataa acagaagaat 420
tgggggttgg ggggtgggaaa cagtgtttcc aggcagagag aacagcacgt acaaaggaga 480
ctgttgggag gggttaaata aataattcat gtaagggtact tagtaccaca catgaatttc 540
acaagcagca g 551

```

<210> 1106

<211> 280

<212> DNA

<213> Homo sapiens

<400> 1106

```

ctgctcttca cacagggttc tggggaaaac aaggaagaga tcatcaatta tgaatttgac 60
accaaggacc tgggtgtgctt gggcctgagc agcatcgttg gcgtctggta cctgctgagg 120
aagcactgga ttgccaacaa cctttttggc ctggccttct cccttaatgg agtagggctc 180
ctgcacctca acaatgtcag cactggctgc atctgctgg gcggactctt catctacgat 240
gtcttctggg tatttggcac caatgtgatg gtgacagtgg 280

```

<210> 1107

<211> 570

<212> DNA

<213> Homo sapiens

<400> 1107

```

ctgattagtg tctaaggaat ggtccaatac tgttgccctt ttccttgact attacactgc 60
ctggaggata gcagagaagc ctgtctgtac ttcattcaaa aagccaaaat agagagtata 120
cagtctaga gaattcctct atttgttcag atctcataga tgacccccag gtattgtctt 180
ttgacatcca gcagtccaag gtattgagac atattactgg aagtaagaaa tattactata 240
attgagaact acagctttta agattgtact tttatcttaa aagggtggtg gttttcccta 300
aaatacttat tatgtaaggg tcattagaca aatgtcttga agtagacatg gaatttatga 360
atggttcttt atcatttctc ttcccccttt ttggcatcct ggcttgacct cagttttagg 420
tcctttagtt tgcttctgta agcaacggga acacctgctg agggggctct ttccctcatg 480
tatacttcaa gtaagatcaa gaatcttttg tgaaattata gaaatttact atgtaaatgc 540
ttgatggaat tttttcctgc tagtgtagct 570

```

<210> 1108

<211> 386

<212> DNA

<213> Homo sapiens

<400> 1108  
 ctgttcctgc ggtgacactg tataaacacg atgaccctgc cttgacttta gttgctggtc 60  
 ttacatcaaa taagcccaca gacaaactcc gtgccctgcc tctgtgggta tctttacaat 120  
 acttgggact tgatgggttt gtggagagga tcaagcatgc ctgtcaactg agtcaacggc 180  
 tgcaggaaaag tttgaagaaa gtgaattaca tcaaaatctt ggtggaagat gagctcagct 240  
 cccagtggt ggtgttcaga tttttccagg aattaccagg ctgagatccg gtgtttaaag 300  
 ccgtcccagt gccaacatg acaccttcag gagtcggccg ggagaggcac tcgtgtgacg 360  
 cgctgaatcg ctggctggga gaacag 386

<210> 1109  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<400> 1109  
 ctctgggtctg taaccagtct cttcaaggca ttatctcctg gggccaggat ccgtgtgcga 60  
 tcacccgaaa gcctgggtgc tacacgaaag tctgcaaata tgtggactgg atccaggaga 120  
 cgatgaagaa caattagact ggacccaccc accacagccc atcaccctcc atttccactt 180  
 ggtgtttggt tctgtttcac tctgttaata agaaacccta agccaagacc ctctacgaac 240  
 attctttggg cctcctggac tacaggagat gctgtcactt aataatcaac ctgggggttcg 300  
 aaatcagtga gacctggatt caaattctgc cttgaaatat tgtgactctg ggaatgacaa 360  
 cacctgggtt gttctctggt gtatccccag ccccaaagac agctcctgg 409

<210> 1110  
 <211> 215  
 <212> DNA  
 <213> Homo sapiens

<400> 1110  
 ccattttgga gtgtgtccat tgggtagcaa tgtggaacc accagggcct ttgtggagaa 60  
 aatggagggg gttgaggag tcccaggagg ggcttatttg agggcctttg ccacttgctc 120  
 ataggcgagc tcgatctcct catcatctgg acagggtggaa gcgaattctt cccgggcgta 180  
 ggcattgctc aagtaccgat gcactccccg gaagg 215

<210> 1111  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<400> 1111  
 cctggggccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60  
 ttattttactg agatggagtc ttgctctgtc acccaggctg gactgcagtg gtgcaatctc 120  
 ggctcaactgc aacctctgcc tcttgggctg cagtgattct cctgcgttca agtaattctc 180  
 ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240  
 tttgtatttt tagtagaaat ggggtttcac catgttggcg aggctggtct cgaactcctg 300  
 acctcaag 308

<210> 1112  
 <211> 177  
 <212> DNA  
 <213> Homo sapiens

<400> 1112

1108 1109 1110 1111 1112  
 409 215 308 177  
 DNA  
 Homo sapiens



ggagaggcag atagtcctgg gggctttggt gtcacagttc ccaaaagcaa ggttgg 416

<210> 1116

<211> 382

<212> DNA

<213> Homo sapiens

<400> 1116

```
ccttatttct cttgtccttt cgtacagga ggaatttgaa gtagatagaa accgacctgg 60
attactcgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctggt atccctaggg taacttgttc cgttggtcaa 240
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300
ctcggagggt gggttctgct ccgaggtcgc cccaaccgaa aatttttaat gcaggcttgg 360
tagtttagga cctgtggggt tg                                     382
```

<210> 1117

<211> 370

<212> DNA

<213> Homo sapiens

<400> 1117

```
ctgcgtgtct gaaaaccaa gatttaaaac atagtaatta ttgaacctca gaagaaaaac 60
tcagattgaa agagcttaga ataagaccct ttttgagttg agaaagggtga gtacttagat 120
ttttcatttg ctttgtttgg gattacttac atcagtattt tatgttgatc agaaagaaaag 180
gattcaatta gctattgttc ggtaataaaa aatgtcagcc actgtaggag taagttggat 240
gtccagcctt ttagattgct ttaacttgga aacactggac tgggagcggg ggctcatgcc 300
tgtgatccca gcaactctggg aggccaaggc aggcagatca ctggagggtca ggagtttgag 360
accaacctgg                                     370
```

<210> 1118

<211> 494

<212> DNA

<213> Homo sapiens

<400> 1118

```
ctgtctctta cttttaacca gtgaaattga cctgcccgtg aagaggcggg cataacacag 60
caagacgaga agaccctatg gagctttaat ttattaatgc aaacagtacc tgacaaaccc 120
acaggctcta aactaccaga cctgcattaa aaatttcggg tggggcgacc tcggagcaga 180
acccaacctc cgagcagtag atgctaagac ttcaccagtc aaagcgaact actatactca 240
attgatccaa taacttgacc aacggaacaa gttaccctag ggataacagc gcaatcctat 300
tctagagtcc atatcaacaa tagggtttac gacctcgatg ttggatcagg acatcccgat 360
ggtgcagccg ctattaaagg ttcgtttggt caacgattaa agtcctacgt gatctgagtt 420
cagaccggag taatccaggt cggtttctat ctacttcaaa ttccctccctg tacgaaagga 480
caagagaaat aagg                                     494
```

<210> 1119

<211> 407

<212> DNA

<213> Homo sapiens

<400> 1119

```
ccttatgact acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60
tccgggcctc cctccaagga gattctgacc ctgaagcagg tccaggagtt cctgaaggat 120
```



```

ggagacgatg tcatcatcat cggggtcttt aagggggaga gtgaccacag ctaccagcaa 180
taccaggatg ccgctaacaa cctgagagaa gattacaaat ttcaccacac tttcagcaca 240
gaaatagcaa agttcttgaa agtctcccag gggcagtcgg ttgtaatgca gcctgagaaa 300
ttccagtcca agtatgagcc ccggagccac atgatggacg tccagggtc caccaggagc 360
tcggccatca aggacttcgt gctgaagtac gccctgcccc tggttgg 407

```

```

<210> 1120
<211> 548
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 513
<223> n = A,T,C or G

```

```

<400> 1120
ccccagagga cccgttggac ccagtggacc tcctggcaaa gatggaacca gtggacatcc 60
aggtccatt ggaccaccag ggcctcgagg taacagaggt gaaagaggat ctgagggctc 120
cccaggccac ccagggcaac caggccctcc tggacctcct ggtgccccctg gtcccttgctg 180
tgggtggtgt ggagccgctg ccattgctgg gattggaggt gaaaaagctg gcgggttttgc 240
cccgatttat ggagatgaac caatggattt caaaatcaac accgatgaga ttatggcttc 300
actcaagtct gttaatggac aaatagaaaag cctcattagt cctgatggtt ctcgtaaaaa 360
cccagctaga aactgcagag acctgaaatt ctgccatcct gaactcaaga gtggagaata 420
ctgggttgac cctaaccaag gatgcaaatt ggatgctatc aagggtattct gtaatatgga 480
aactggggaa acatgcataa gtgccaatcc ttngaattgt ccacggaaac actgggtggac 540
agattcta 548

```

```

<210> 1121
<211> 278
<212> DNA
<213> Homo sapiens

```

```

<400> 1121
cggccgaggt ccgccatggc gtgtgctcgc ccactgatat cgggtgtactc cgaaaagggg 60
gagtcattct gcaaaaatgt cactttgcct gctgtattca aggctcctat tcgaccagat 120
attgtgaact ttgtttacac caacttgctc aaaaacaaca gacagcccta tgctgtcagt 180
gaattagcag gtcacagac tagtgctgag tcttggggta ctggcagagc tgtggctcga 240
attcccagag ttcgaggtgg tgggactcac cgctctgg 278

```

```

<210> 1122
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<400> 1122
ctgcagcggc agaggcagca tccagcggcg gcgccagcag ttccagtcog ttgctttact 60
ttttgcttca ccgacatagt cattatgccg aagagaaaagt ctccagagaa tacagagggc 120
aaagatggat ccaaagtaac taaacaggag ccacaagac ggtctgccag attgtcagcg 180
aaacctgctc caccaaaacc tgaacccaaa ccaagaaaaa catctgctaa gaaagaacct 240
ggagcaaaga ttagcagagg tgctaaaggg aagaaggagg aaaagcagga agctggaaaag 300
gaaggcacag aaaactgaat ctgtagataa cgaggagaa tgaattgtca tgaaaaattg 360
gggttgattt tatgtatctc ttgggacaac ttttaaaagc tatttttacc aagtattttg 420
taaagtctaa ttttttagga ctctactagt tggcatacga aaatatataa ggatggacat 480

```

```

tttatcgtct catagtcatg ctttttggaa atttacatca tcctcaagta aaataaatat 540
cagttaaata ttggaagctg tgtgtaagat tgattcagca ttccatgcac t          591

```

```

<210> 1123
<211> 454
<212> DNA
<213> Homo sapiens

```

```

<400> 1123
ccaattgaaa caaacagttc tgagaccgtt cttccactac tgattaagag tgggggtggca 60
ggtattaggg ataattattca tttagccttc tgagctttct gggcagactt ggtgaccttg 120
ccagctccag cagccttctt gtccactgct ttgatgacac ccaccgcaac tgtctgtctc 180
atatcacgaa cagcaaagcg acccaaaggt ggatagtctg agaagctctc aacacacatg 240
ggcttgccag gaaccatata aacaatggca gcatcaccag acttcaagaa tttagggcca 300
tcttccagct ttttaccaga acggcgatca atcttttcct tcagctcagc aaacttgcac 360
gcaatgtgag ccgtgtggca atccaatata ggggcatagc cggcgcttat ttggcctgga 420
tggttcagga taatcacctg agcagtgaag ccag          454

```

```

<210> 1124
<211> 219
<212> DNA
<213> Homo sapiens

```

```

<400> 1124
cctgctccag agcacggctg accattttctg ctccgggatc tcagctcccg ttccccaage 60
acaactcctag ctgctccagt ctcagcctgg gcagcttccc cctgcctttt gcacgtttgc 120
atccccagca tttcctgagt tataaggcca caggagtgga tagctgtttt cacctaaagg 180
aaaagcccac ccgaatcttg tagaaatatt caaactaat          219

```

```

<210> 1125
<211> 246
<212> DNA
<213> Homo sapiens

```

```

<400> 1125
ccagagctgg gcccaagctg cgctggaatc gcagcaggag aggggagtgg gctgggttctt 60
cccaccactt cccaggctct gacagccgag actcatttcc aaggcacagc agcttttctaa 120
agggactgag tttggactgg gttttggacc tccaggggct ggagcttcat cacctgggca 180
gtgtcttttc tcagagagca ggtttcttta tagtttgaa ataaatgggt cacgggttcaa 240
aagaaa          246

```

```

<210> 1126
<211> 227
<212> DNA
<213> Homo sapiens

```

```

<400> 1126
ccattgttcc cgtgcatcga agcttgcagg cagcttcagg tcctcggtaa acataactct 60
ctgggggtggc ttggggccac ccaggaaggt accacatagc ctcttcaagt agctcatgtc 120
cacgttgtag aagttgtggc cggcctgcc cgtgggtattc cgtttgttga catagttgac 180
cagctcatcc gacaggggat ggaaagaggg cctgctccgg gcattgg          227

```

```

<210> 1127
<211> 377

```

<212> DNA  
<213> Homo sapiens

<400> 1127  
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312

<210> 1143

<211> 367

<212> DNA

<213> Homo sapiens

<400> 1143

```
ccagacgtgg  ttgctcacac  ctgcaatccc  agcaccttag  gaggccgagg  caggaggatc  60
cttgagggtca  ggagttcgag  accagcctcg  ccaacatggg  gaaaccccat  ttctactaaa  120
atacaaaaaa  ttagccaagt  gtggtggcat  atgctgttaa  tcccaactac  tcagaaggcc  180
gaggcaggag  aattacttga  acgcaggaga  atcactgcag  cccaggaggc  agaggttgca  240
gtgagccgag  attgcaccac  tgcactccag  cctgggtgac  tgagcaagac  tccatctcag  300
taaataaata  aataaataaa  aagcgcgtga  gtagctgtgg  cctcacccctg  aagtcagcgg  360
gccaggg                                           367
```

<210> 1144

<211> 159

<212> DNA

<213> Homo sapiens

<400> 1144

```
cctggaggag  cggccgcaca  cacagccagg  cgctaggctc  cctgcgggac  ctcgggaagg  60
gggaagagcg  tcaacgattt  acggaggggc  cagccgctgg  gtcagattga  gacaaaccat  120
tgtgtggttg  ggttcgggtc  agcaggctgg  agagggttc                                           159
```

<210> 1145

<211> 450

<212> DNA

<213> Homo sapiens

<400> 1145

```
ccatgggtgt  ctggagcacc  ctgaaactgt  atcaaagttg  tacatatattc  caaacatttt  60
taaaatgaaa  aggcactctc  gtgttctcct  cactctgtgc  actttgctgt  tgggtgtgaca  120
aggcatttaa  agatgtttct  ggcattttct  ttttatttgt  aagggtgggtg  taactatggg  180
tattggctag  aaatcctgag  ttttcaactg  tatatatcta  tagtttgtaa  aaagaacaaa  240
acaaccgaga  caaaccttg  atgctccttg  ctgggcgttg  aggctgtggg  gaagatgcct  300
tttgggagag  gctgtagctc  agggcggtga  ctgtgaggct  ggacctgttg  actctgcagg  360
gggcatccat  ttagcttcag  gttgtcttgt  ttctgtatat  agtgacatag  cattctgctg  420
ccatcttagc  tgtggacaaa  ggggggtcag                                           450
```

<210> 1146

<211> 324

<212> DNA

<213> Homo sapiens

<400> 1146

```
ccatacaggg  ctgttgccca  ggccctagag  gtcattcctc  gtaccctgat  ccagaactgt  60
ggggccagca  ccatccgtct  acttacctcc  cttcggggca  agcacacca  ggagaactgt  120
gagacctggg  gtgtaaatgg  tgagacgggt  actttgggtg  acatgaagga  actgggcata  180
tgggagccat  tggctgtgaa  gctgcagact  tataagacag  cagtggagac  ggagttctg  240
ctactgcgaa  ttgatgacat  cgtttcaggc  cacaaaaaga  aaggcgatga  ccagagccgg  300
caaggcgggg  ctctgatgc  tgga                                           324
```

<210> 1147  
 <211> 191  
 <212> DNA  
 <213> Homo sapiens

<400> 1147  
 ccacgaaaat caatgagaag ccacaggtga tcgcggacta tgagagcgga cggggccatac 60  
 ccaataacca ggtgcttggc aaaatcgagc gggccattgg cctcaagctc cgggggaaagg 120  
 acattggaaa gcccatcgag aaggggccta gggcgaaatg aacacaaaagc ctcgaaatca 180  
 gtgtgctcca g 191

<210> 1148  
 <211> 344  
 <212> DNA  
 <213> Homo sapiens

<400> 1148  
 ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc 60  
 tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgacccagt catcctgaat 120  
 gtctcttatg gccagacga ccccaccatt tccccctcat acacctatta ccgtccaggg 180  
 gtgaacctca gcctctcctg ccattgcagcc tctaaccacac ctgcacagta ttcttggtg 240  
 attgatggga acatccagca acacacacaa gagctcttta tctccaacat cactgagaag 300  
 aacagcggac tctatacctg ccaggccaat aactcagcca gtgg 344

<210> 1149  
 <211> 329  
 <212> DNA  
 <213> Homo sapiens

<400> 1149  
 ctgacccact cactgggcgg gggcacaggc tctggaatgg gcactctcct tatcagcaag 60  
 atccgagaag aataccctga tcgcatcatg aataccttca gtgtggtgcc ttcacccaaa 120  
 gtgtctgaca ccgtgggtcga gccctacaat gccaccctct ccgtccatca gttggtagag 180  
 aatactgatg agacctattg cattgacaac gaggccctct atgatattctg cttccgcact 240  
 ctgaagctga ccacaccaac ctacggggat ctgaaccacc ttgtctcagc caccatgagt 300  
 ggtgtcacca cctgcctcgg ttcccttg 329

<210> 1150  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<400> 1150  
 ccagttatatt gcaagtggta agagcctatt taccataaat aatactaaga accaactcaa 60  
 gtcaaaccctt aatgccattg ttattgtgaa ttaggattaa gtagtaattt tcagaattca 120  
 cattaacttg attttaaaat cagttttgtg agtcatttac cacaagctaa atgtgtacac 180  
 tatgataaaa acaaccattg tattcctggt tttctaaaca gtcctaattt ctaacactgt 240  
 atatatcctt cgacatcaat gaactttggt ttcttttact ccagtaataa agtaggcaca 300  
 gatctgtcca caacaaactt gccctctcat gccctgcctc tcaccatgct ctgctccagg 360  
 tcagccccct tttggcctgt ttgttttgtc aaaaacctaa tctgct 406

<210> 1151  
 <211> 346  
 <212> DNA



<213> Homo sapiens

<400> 1151

```
ctgcgtgagt accaggagct gatgaacgtc aagctggccc tggacatcga gatcgccacc 60
tacaggaagc tgctggaggg cgaggagagc cggctggagt ctgggatgca gaacatgagt 120
attcatacga agaccaccag cggctatgca ggtggtctga gctcggccta tgggggcctc 180
acaagccccg gcctcagcta cagcctgggc tccagctttg gctctggcgc gggctccagc 240
tccttcagcc gcaccagctc ctccagggcc gtggttgatga agaagatcga gacacgtgat 300
gggaagctgg tgtctgagtc ctctgacgtc ctgcccgaagt gaacag 346
```

<210> 1152

<211> 427

<212> DNA

<213> Homo sapiens

<400> 1152

```
ctggactgct gtacatcaag gacagattaa ctggaaaaca tatgttcctt atgcgtgatac 60
gagagccatt cagaaaagac ttcctttgtg ttcagcctat acttttccat atggtataacc 120
ttgaaaaaaa ttagcacacc atggttattt ttctaccttt tataaaagac agagcctggt 180
tactcattta gaagatagag aaaattggtc taaaattgaa catcctagat tcacactccc 240
aagtcactta aggtgatttg atggtgagga aaatgattga cagagcccaa caatgatctc 300
aggaattaca ttttccaaca gaccaaaaaa tgttttcatg tagcagcaat gcagatttg 360
tgaatatatta atatataatt tagtatgtat ttcactttat gactgacaat taaaaaatat 420
tgttttgg 427
```

<210> 1153

<211> 331

<212> DNA

<213> Homo sapiens

<400> 1153

```
ctggccggcg gtgcagatct ggagtccagc ctcagggatg cgctactttc cattctctgc 60
attgaacatt cgttctgtca gcatccgctc cagcttcact gcatcagcgg caaacttgcg 120
gatcccgctc gagagcttct ccacagccat ctggctcctg ttgtgcaacc aacggaaaaga 180
cttctcatcc aggtggattt tttccaggtc actggcttgg gctggggggac aagaaccagc 240
cttccatgcc tgcctcatgt cctgcccac cttggcccct tgggctcagg gcctgaaccg 300
ctgcacccaa gcatctccca ccagggccag g 331
```

<210> 1154

<211> 403

<212> DNA

<213> Homo sapiens

<400> 1154

```
ctgaactttc agatgaagtt gacttctact tgattgcagg attcagggtt tctcagatgt 60
taatacagag tcaaaagcgg tggataaaac cttgcaaagt gcttggtgctt gttccaggct 120
gttgactga taaaccacaa ggctgtattc ctcatgtgct gcatctgtgg tcttcagagc 180
cagtaagctt tttcccgccc ccagaccgtc atcgtaacac accatccgga ttattaagta 240
gagagcatgc ctgtgcaaaa catcatattg atctgatgtt gatactttta tgccatactt 300
ggaaactccc ataataaatt ctctctccgg aggaacaaaa ggcaactttc catcttgctg 360
ggcaacgtct atataattta tcagggtctaa tggcccttca agg 403
```

<210> 1155

<211> 491

<212> DNA  
 <213> Homo sapiens

<400> 1155  
 cctccctctc agagcttgcc ccagggactc tctggccctc aggggttcaat gtattctgac 60  
 caaggccaag ctttcctggg gctcagggaa aatcacactt tgctaccoga agctgtatcc 120  
 cctcagatgc caggaaggcc gtgatcatct gactccaccc tctgagaca cattctctcc 180  
 ctgactgtcc tggtctaagt cagcggagca ccttaggatg gaggggtgga ggcgaggcca 240  
 gatgcagcct ctgtgaacag gtgcctggag gctgggaaat gaccctgaga gggcaggaca 300  
 cagcaaccgt gggcttaagg tgaccttgag agcaagcttg gcccacttta caattctgtt 360  
 cagagccagc ccctaacatg gtggtcattt attcatttgt tccctcattt taaaaaatgt 420  
 aaggccaggc atggtggctc acgccgggta atcccagcac tttgggaggc cgaggcaggc 480  
 agatcacctg a 491

<210> 1156  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<400> 1156  
 agcaaataga agcaatcagg gcactgcaag ttgtgactac tccaagatgt gaatcatgga 60  
 tcatgcaaat tacaatcatg ttttaacctg acctccaaag ggagaataaa gtaaaaatta 120  
 tcccatgtga ggattattca ccagtttata tgcattagt taccagtttt tctttatgaa 180  
 taatgttttag caatattata aagtatatct aatagttatc aggttttttg cttgttactt 240  
 tttggtagta acttataaaa ctgactggaa aagaccaata aggcaactgt tgcattgttac 300  
 aaatttatatc caaagaccaa aagctgttaa taagaaatct tccaataaaa ccacatcata 360  
 ttttcttttt tatttacacc cacatcagga ttacaacttt atcaggactg caccttgatc 420  
 aggaagggat gtttctctta caaggcta atagaaaggaa caataaattt gctgatgaaa 480  
 aaagtcatgc atttaaaaat ttttaacttta atttttaatt gagggcaata ttttaaagaa 540  
 atgctcatta gtcatttcct taaattgtgt gtgtgagaga gagaaa 586

<210> 1157  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 373, 389  
 <223> n = A,T,C or G

<400> 1157  
 cctccggctg gtgttctgag ggttgccagg ccatcgtgga cacaggcacc tctctgctca 60  
 ctgtgcccc a gtagtacatg agtgcctctt tgcaggccac aggggccag gaggatgagt 120  
 atggacagtt tctcgtgaac tgtaacagca ttcagaatct gccagcttg accttcatca 180  
 tcaatggtgt ggagttccct ctgccacctt cctcctatat cctcagtaac aacggctact 240  
 gcaccgtggg agtcgagccc acctacctgt cctcccagaa cgccagccc ctgtggatcc 300  
 tcggggatgt cttcctcagg tctactatt ccgtctacga cttgggcaac aacagagtag 360  
 gctttgccac tgnccgctag acttgctgnc tc 392

<210> 1158  
 <211> 375  
 <212> DNA  
 <213> Homo sapiens

<400> 1158  
 gggaaaaata attttattcc tcaaagatc agcacattca gaagcaggac agaggagctc 60  
 tgatgacatc tctgggggac tcaaagcggc cctcattttc tggatatttc ccagggtgatt 120  
 ctcttccaac ctgtgagtc tgctctcttt cctcccatct gaagtttgag acatcctctg 180  
 ccacaaggaa agccaccaat accagcccaa agagccacca gagaggaacc aaaccacatg 240  
 catcaagtta taggaaggat gcaagaagg aaattaggaa ggaaaggag gagtttagtt 300  
 ggcattctgg ggcattgctaa catgaggcg atggctctct tccaagtcgc tggacatatc 360  
 ccttttcttt ccagg 375

<210> 1159  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 338  
 <223> n = A,T,C or G

<400> 1159  
 gtttattgta aaaaacaaaa aactctgtat tgtgcacatg aagacctgga gatgtgccga 60  
 cttcctgtcc ccaaagccaa tcttccccgc caaggcgact gaggatttca agggctcaga 120  
 gttactgcag gaatccaggt gacaccagga agagaagggg gaggagggga atcggagggg 180  
 atgggtttta aaggcagagg ggaggagat ggaagggaat gaggagagg gagactgagg 240  
 gggctgcctt tccttgggga ctggggaact catgcctgc cccacccgc agggctccag 300  
 ggggtgagaga aagggggtgga gaataaagaa ttgggcanca gggatgatgg gggaacagca 360  
 g 361

<210> 1160  
 <211> 142  
 <212> DNA  
 <213> Homo sapiens

<400> 1160  
 cgcaatgttg ccagtgtctg tctgcaggtt ggctacccaa ctgttgcatc agtaccocat 60  
 tctatcatca acgggtacaa acgagtcctg gccttgtctg tggagacgga ttacaccttc 120  
 ccacttgctg aaaagggtcaa gg 142

<210> 1161  
 <211> 193  
 <212> DNA  
 <213> Homo sapiens

<400> 1161  
 ccaaagccta cgaccacctc ttcaagttgc tgctgatcgg ggactcgggg gtgggcaaga 60  
 cttgtctgat cattcgcttt gcagaggaca acttcaacaa cacttacatc tccaccatcg 120  
 gaattgattt caagatccgc actgtggata tagaggggaa gaagatcaaa ctacaagtct 180  
 ggacacggc tgg 193

<210> 1162  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1162
cctgggtgcc acgattccca gcctggagcg cagccaggac gtgggagacc ttctcagaga 60
ctctccgggc acactctatg agctccttct tgggttaggc atcactgggg ctgcactgca 120
gggcgcctgc cttggtgacc agagcggcac agccatggcc cagctcctgt acccggtgtt 180
tgatatggga acctatctct tcattttcag cagccaccgc tgcaggcttg gcctccgagg 240
ccagacggcc atagtcactg gtcag                                     265

```

```

<210> 1163
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 15, 204, 205, 212, 224, 263, 285, 293
<223> n = A,T,C or G

```

```

<400> 1163
ctgcagagtg ggganaggct tttgccacta gaaacttcca ggatgcacga gatcaaggaa 60
ttaagtctgt aacaaaataa caggatgctc tgtgaagtcc aaagaattgc ttgaggcaaa 120
ctgcagagct ccatgagatc agcaacccca agagctttta caccgccgga cacggtttaa 180
taggaaaaaa atctcctata ctgnntattc anaaccaa at gaanagaaat gtcaaaggag 240
tcggaaacaa tatgtcaaat tangtaaatt cctgacctga cccanatttt gcngaacatt 300
tgatcctaaa ctgtgctgtc cacgtcctta ggatcac                                     337

```

```

<210> 1164
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 221, 226, 233, 242
<223> n = A,T,C or G

```

```

<400> 1164
ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60
cttgagggtca ggagttcgag accagcctcg ccaacatggt gaaaccccat ttctactaaa 120
aatacaaaaa attagccaag tgtgggtggca tatgcctgta atcccaacta ctcagaaggc 180
cgaggcagga gaattacttg aacgcaggag aatcactgca ncccangagg canagggttg 240
antgagccga gattgcacca ctgcactcca gcctgggtga cagagcaaga ctccatctca 300
gtaaataaat aaataaataa aaagcgtgct agtagctgtg gcctcacctt gaagtcagcg 360
ggcccagg                                     368

```

```

<210> 1165
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 179, 211, 214, 235, 251, 252
<223> n = A,T,C or G

```

```

<400> 1165
ctgggaagga ggctcctccg ccttctcctg tttgtcatcc tcctcatcag actcgacctc 60
catctcaact tcctcactct ccccaaacctt ttcatagcgc tcctgaatga ggattcgggc 120
cccagctcc tctggcgtgg tggggggagg gaagttccct tgctcattgg gttggaagnc 180
cactgtttcc accaccacaa aatcatgccca ntcnatctga gcataggcca cccgntcctt 240
ctccttctcc nnttcttctt tcttctt
267

```

```

<210> 1166
<211> 433
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 142, 323, 354, 376, 381, 382, 402, 408, 422
<223> n = A,T,C or G

```

```

<400> 1166
ctgtctgtac actttttctt gggggaagag ttcttgtctt cagtttactg cagtaggggtt 60
cctggctctg ttacatgctc atgtgttccg gaagaacaca tgaaatatca tcccacggat 120
gacgatacag cccctgcttc ancctcttct gatcaagata gtgtccaatg aaccccatatc 180
tccttcccag cacaagatg ccattgaggg ctccaatgct aatatattca tcagcttctt 240
ccctgcaaca cacatcaact tgtagtctta aaaggctcac gtgactgcc tcctccccac 300
agacagtact actactgcc aanaatgaga agaaaagggg tgctctgggt ggtngcatta 360
caggcaattt ttgttntctt nnttatacct ctcttattt tncaaatntt ctattatgag 420
tntgcattac ttt
433

```

```

<210> 1167
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<400> 1167
cctctggctc tttcttcagc cacttctcca gctcctgcag gttctgggtc gagtagtcag 60
tgacgacgat ctctttaaag gattcacaag cagagaggag ctgatagata gtggggccag 120
agccgatgtc aatcagcagg tctcccttca caccgtctag gcagaatatc ttgaaaagat 180
ttttcagaag gtgcttaaga atctggttt ctgcagagtg cctagaacca aacttgtaat 240
atttttctag gtaatcccga ggggttaaaat ggcttagata ggtgtccttg gaggtgaagc 300
ctgattccat tatgtctcac ttccgtacca ctggagcact gccctccttc tctttcctcc 360
ag
362

```

```

<210> 1168
<211> 459
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 370, 382, 406
<223> n = A,T,C or G

```

```

<400> 1168
gcagtcattg ggcccaggac catgccactg gccctgctcc cccagccgca gctcaccctg 60

```

```

cagggtgctcc tcgatgtcct tgcggtcgta ggtgatgcc a ctgggcgtga tgcaaggctc 120
ccgcatcagc tcaaagctga tcttgccaca caggtagtcg gggatgtctc gcttctgtgg 180
cacaggggca cagggtcaga ggctgaaaag gggcactgca cgagcacctg ccagccatcg 240
gcagcaagcg acacacactc accttcctct tctcatccac ctgagaaaaa agctcgtcca 300
tgtccgccat gtacttgtcc tgtgaagagt tgagtgtgt gcttggggga gacacccac 360
ctccctcctn catggggcac anaccaaca caaggcggg atgctnccac gccacgtgca 420
cacacacaga cccacatgtg ggtggggggc accctcacg 459

```

<210> 1169

<211> 386

<212> DNA

<213> Homo sapiens

<400> 1169

```

ccaggccacc tgtgcggggc tcctcgatgt ggaaggttcg ggtgaggaga ttgtagaagg 60
agcgcgtagca cacggccacc acagtgcacg tgaggcagat cacgctgtag ggcattgctga 120
agtccggtgt cggcagggttc accagcagcg gctccgtgta gagccgcaca aagtagttag 180
agccatcaga gactgggaac aggcgtgttg agaggggact ctcttcccag tccactggct 240
tggtgtctac catgctgggc acaaggggcg tgaggacaga tgggctgaca tagaagccat 300
ggttaggatc tggcgtgtac tcggteact tcagcagcgc ccgctcaaac tggatggaaa 360
ccttggtgac tgagttggcc ggccag 386

```

<210> 1170

<211> 480

<212> DNA

<213> Homo sapiens

<400> 1170

```

ctattttctct gttagtgttt aaccaaccat ctgttctaaa agaagggctg aactgatgga 60
aggaatgctg ttagcctgag actcaggaag acaacttctg cagggtcact ccctggcttc 120
tggaggaaaag agaaggaggg cagtgtcca gtggtacaga agtgagacat aatggaatca 180
ggcttcacct ccaaggacac ctatctaagc cattttaacc ctcgggatta cctagaaaaa 240
tattacaagt ttggttctag gcactctgca gaaagccaga ttcttaagca ccttctgaaa 300
aatcttttca agatattctg cctagacggg gtgaaggagg acctgctgat tgacatcggc 360
tctggcccca ctatctatca gctcctctct gcttgtaat cctttaagga gatcgctgctc 420
actgactact caggaccaga acctgcagga gctggagaag tggctgaaga aagagccaga 480

```

<210> 1171

<211> 317

<212> DNA

<213> Homo sapiens

<400> 1171

```

cctcagcagc cctgccacgg atctgcccga ttctttcgca tcaagaagtt gatcttgcca 60
gccatttcca tgtttagat ccgccggcac ctttcatagc tttccctctg tcgccggcgg 120
catggcttct cataataccg ccgatgctta atgtcctcaa tgagcccatc catagtggag 180
attctgttta gggctcgtga tgcgctttcc acgttccctt cctgtaccat cacagtctctg 240
gogatgaact tcagatgttt tgccatgacc ttggatttaa accttcaact tgtagagcct 300
cgcgcgctca gtacct 317

```

<210> 1172

<211> 202

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 32, 62, 70, 71, 77, 90, 111

<223> n = A,T,C or G

<400> 1172

```
ggcaacggga ggaacagcag cagaggcagc angagcagga ggagcgtgaa cgagaagagc 60
ancggcgatn ngctgcncctc agtgaccgan agaagagagc tctggctgca nagcgccgac 120
tcgctgcccga gttgggagcc cctacctctc caatccctga ctctgcaatc gtcaatactc 180
gacgctgctg gagttgtggg gc 202
```

<210> 1173

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1173

```
ctgcctgggt tgtggccgcc ctagcatcct gtatgccac agctactgga atccccgctg 60
ctgctccagg ccaagcttct ggttgattaa tgaggcatg ggttggtccc tcaagacctt 120
cccctacctt ttgtggaacc agtgatgcct caaagacagt gtcccctcca cag 173
```

<210> 1174

<211> 301

<212> DNA

<213> Homo sapiens

<400> 1174

```
ccaagagcta caatgggcag cgcacagac agaacgtgca ggTTTTTgag ttccagttga 60
ctgcggagga catgaaagcc atagatggcc tagacagaaa tctccactat tttaacagtg 120
atagTTTTgc tagccaccct aattatccat attcagatga atattaacat ggagagcttt 180
gcctgatgtc taccagaagc cctgtgtgtg gatggtgacg cagaggacgt ctctatgccg 240
gtgactggac atatcacctc tacttaaadc cgtcctgttt agcgacttca gtcaactaca 300
g 301
```

<210> 1175

<211> 537

<212> DNA

<213> Homo sapiens

<400> 1175

```
cctgcagggc tcggccgtag gagaaggcca gggcccagg cttcagcagg gggcacttgt 60
taatggcatt gaggttgatg gacgcctcct cctcactctg gcctccagac aggaagggtga 120
tcccagtga acgggggggc actgtgcggc gcagcgtgt gacggtcgcc atggcaatct 180
cctcatgaga aaacttctga gtgcaagcat ggcttgggt gaccatgttg ggcttcagca 240
agggtgccttc caggttagatg tgggtgtcac tcagagcctt gtagacagca gccagcacct 300
tctcggtcac atactggcag cgcttcaagt catggtcccc atcaggagg atctcaggct 360
ccacgatggg cacaatgcc a ttctgtggc agatactggc ataacgggc agaacattgg 420
catTTTTcat gatggcgagg gctgaggggg tgtgttcccc aatcttcagc acacaacgcc 480
acttgggcga gtcagctccg tccttcttgt actgggcaca gcgctcagac agcccat 537
```

<210> 1176

<211> 384

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 268, 285, 334, 360, 361, 368  
<223> n = A,T,C or G

<400> 1176  
ctgacaaaaa atgtgaaatt tccacaaaat atccaaactta tgtgactaaa cgcagtagtt 60  
tttttaaaag gggagataga aaataaatgg ttttgttggg gtgcatttta gtaagccttt 120  
gcagtaaaat gacgggttgta actactaaac caaatttagt tttcacagca tggttttgtt 180  
gttttccctt tgtttttcag aggtaaattt tgcattatat ctttcagtat tttaacacta 240  
ttttggcagt ttacacatta ctttttgntt ttccttcctt tttgngaaat gtattaagtt 300  
gtggttctta ttgaaacagt attatataat gttngcttaa ttatatcatg tgatgctcan 360  
ntctattntg atttattcat tagt 384

<210> 1177  
<211> 562  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 492, 541, 550  
<223> n = A,T,C or G

<400> 1177  
ccaacaacat gcaggaagct cagagtatcg atgaaatcta caaatacgac aagaaacagc 60  
agcaagaaat cctggcggcg aagccctggg ctaaggatca ccattacttt aagtactgca 120  
aaatctcagc attggctctg ctgaagatgg tgatgcatgc cagatcggga ggcaacttgg 180  
aagtgatggg tctgatgcta ggaaagggtg atggtgaaac catgatcatt atggacagtt 240  
ttgcttttgc tgtggagggc actgaaaccc gagtaaatgc tcaggctgct gcataatgaat 300  
acatggctgc atacatagaa aatgcaaaac aggttggccg ccttgaaaat gcaatcgggt 360  
ggtatcatag ccaccctggc tatggctgct ggctttctgg gattgatgtt agtactcaga 420  
tgctcaatca gcagttccag gaaccatttg tagcagtggt gattgatcca acaagaacaa 480  
taccgcagg gnaaagtga tcttggcgcc tttaggacat acccaaaggg ctacaaacct 540  
nctgatgaan gaccttctga gt 562

<210> 1178  
<211> 353  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 117  
<223> n = A,T,C or G

<400> 1178  
cgcgctctgga tggccgaatc attcgcacag actgggacgc aggcctttaag gagggcaggc 60  
aatacggccg tgggcgatct gggggccagg ttccggatga gtatcggcag gactacnatg 120  
ctgggagagg aggcctatgga aaactggcac agaaccagtg agtggtgaga gctctgtcag 180  
tgacaaacac tcctttggcc tgttgaattt gctgaagaac atcacctaaa gtctgcacac 240



gagcccattt ttaccaagat ttgatcagtg tctttactga gctggaagcc tctgaaagtt 300  
 attaaaggac agaatccaaa agaatgcctt taattcttgt ctgagaatct tgg 353

<210> 1179

<211> 288

<212> DNA

<213> Homo sapiens

<400> 1179

ccaatgggat cctcaagggtg cctgccatca atgtcaatga ctccgtcacc aagagcaagt 60  
 ttgacaacct ctatggctgc cgggagtcct tcatagatgg catcaagcgg gccacagatg 120  
 tgatgattgc cggcaaggta gcggtggtag caggctatgg tgatgtgggc aagggtgtgtg 180  
 cccaggccct gcgggggttc ggagcccgcg tcatcatcac cgaggttgac cccatcaacg 240  
 cactgcaggc tgccatggag ggctatgagg tgaccaccat ggatgagg 288

<210> 1180

<211> 523

<212> DNA

<213> Homo sapiens

<400> 1180

ctggagagat ggagcgggtg gcaccgtcat ccttcctcat cagccacata gaaggacagt 60  
 ggcgatttca gccagcttt tctgactgct tgtaaattga agcccagaac tggtttgcca 120  
 cctgtgggat cgactcagca ttttaaaata ggaggcagtc gtgagtgcag gtttcttgca 180  
 gctccgggtg gccctgggct ccaggtcagg agacctcagc tcctgtccct gatctgtggt 240  
 tgtcaagcct tgcagactct aaactcagca tctttatctg tcagacgtag acacgtggct 300  
 cccgtgggtg gtgcgggttg aatagctgag gtaatacacg gacctccaag cactagagca 360  
 gtatgaggag ttctgaggaa tggttatcct gcggtgacct tgggtccacag caagccattc 420  
 ttatcccatc cggtttactt cccacagcca ctttgtaagc ataggcatta tcctctaccc 480  
 catcatagaa atgaggaaaa gaatcaccaa gagagtaagc agc 523

<210> 1181

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 438, 479

<223> n = A,T,C or G

<400> 1181

cacagatgaa ggctttgtga tacctgatga agggggccca caggaggagc aagaagagta 60  
 ttaacagcct ggaccagcag agtaacatcg gaattcttca ctccaaatca tgtgcttaac 120  
 tgtaaaatac tcccttttgt tacccttaga ggactcactg gtttcttttc ataagcaaaa 180  
 agtacctctt cttaaagtgc actttgcgga cgtttcactc cttttccaat aagtttgagt 240  
 taggagcttt taccttgtag cagagcagta ttaacacctg gttgggtcac ctggaaaaca 300  
 gagaggctga ccgtggggct caccatgcgg atgcgggtca cactgaatgc tggagagatg 360  
 ttatgtaata tgctgagggtg gcgacctcag tggagaaatg taaagactga attgaatttt 420  
 aagctaattg gaaatcanag aatgttgtaa taagtaaagc ccttaagagt atttaaaaana 480  
 tgcttccaca ttt 493

<210> 1182

<211> 329

<212> DNA  
<213> Homo sapiens

<400> 1182  
cgcgctctctg acactgtgat catgatagg gttcaaacag aaagtgcctg ggccctcctt 60  
ctaagtcttg ttaccaaaaa aaggaaaaag aaaagatctt ctcagttaca aattctggga 120  
agggagacta tacctggctc ttgccctaag tgagaggtct tccctccgc accaaaaaat 180  
agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240  
ggcctcattt cccaggtgcc ttcaatgctc atcaaaacca ggcatgggga aggccctggc 300  
aaactgctcc acccgttgcc tgaggttg 329

<210> 1183  
<211> 198  
<212> DNA  
<213> Homo sapiens

<400> 1183  
cctgacagac agaagggtt ggagattttt tttctttaca attcagtctt cagcaacttg 60  
agagctttct tcatgttgct aagcaacaga gctgtatctg caggttcgta agcatagaga 120  
cgatttgaat atcttccagt gatatcggct ctaactgtca gagatgggtc aacaaacata 180  
atcctgggga catactgg 198

<210> 1184  
<211> 224  
<212> DNA  
<213> Homo sapiens

<400> 1184  
ctggaggtgc ctcagaaggt gcattctgct tcttgcagg gcttgaaaca ccaaggcact 60  
ccagggatcc tggagtcaaa gcagcagccc cggttgttg actccttggg ggtgacatgg 120  
gggtagccgc agtccacct gtccttggtt ggacggcac actggtttg agacaggccc 180  
acgtactcct cagcagagct ggaggacagc aaggccagga ccag 224

<210> 1185  
<211> 367  
<212> DNA  
<213> Homo sapiens

<400> 1185  
ccttttacag atgtcagctt tcaactggcct ccatgcacaa cctcccacta ccacccaatc 60  
tgctgccac agcaaagtgc aggcaccctg ggccccctg aggatgcggg caggggctac 120  
agggcatoca ggatgtggct gatcttggtg accagctcct ggcgctttcc tgagatgagc 180  
ttctcattct caatgtacgt gtctttcttg agcttgccag ccaccaggcg ctcagcctcc 240  
accgcgact tcagcaccag ctccttgacc tgtgcatcca gcttctgcat ttcgctcact 300  
ctgtgcaca gatcagagcc ctctgtcttc agcctggact gcagcagtgc aatctcactg 360  
gtcaagg 367

<210> 1186  
<211> 188  
<212> DNA  
<213> Homo sapiens

<400> 1186  
ccattaagcg gatgctggag atgggagcta tcaagaacct cacgtccttc cgacctgggc 60

```

aagagctgta gcctgtcggc tgcctactct gctgtctggg tgacccccat gcgtggetgt 120
gggggtggct ggtgccagta tgaccactt ggactcacc cctcttggg agggagtcct 180
gggcctgg                                     188

```

```

<210> 1187
<211> 379
<212> DNA
<213> Homo sapiens

```

```

<400> 1187
gttgatgcta ctctgaagtc tctcaacaac cagattgaga cctttcttac tctgaaggc 60
tctagaaaga gccagctcg cacatgccgt gacttgagac tcagccacc agagtggagc 120
agtggttact actggattga ccctaacca ggatgcacta tggatgctat caaagtatac 180
tgtgatttct ctactggcga aacctgtatc cgggcccaac ctgaaaacat ccagccaag 240
aactggata ggagctccaa ggacaagaaa cacgtctggc taggagaaac tatcaatgct 300
ggcagccagt ttgaatataa tgtagaagga gtgacttcca aggaaatggc taccacactt 360
gccttcacgc gcctgctgg                                     379

```

```

<210> 1188
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1188
cgcgtcggac tgcagccagt ccgtttcctt tctttagcca gccatcctgg tactgtagtt 60
taggggttga tgggtggtga aattgatttc tggctggtta ctaagggtgcc tgctagccat 120
tgtataaaat taaaacatga agaatatatt ttttttgagc atggctagt gatttaaaac 180
aacacatacc tgtcactgct ggagtcaaac ttataaaaag ccttaagtgg aaagtgttcc 240
agacggagac tctgagttaa tagaggagta gaagctggtg ttaaagttcc cagcagcac 300
atggcctttgc cagaaactct gtttaatgat cggcctttca cctcttcaact tatecttagt 360
cccagtagcc aggatacctg atgg                                     384

```

```

<210> 1189
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 348, 349
<223> n = A,T,C or G

```

```

<400> 1189
ggaaaaacca gccactgctt tacaggacag ggggttgaag ctgagccccg cctcacacc 60
acccccatgc actcaaagat tggattttac agctacttgc aattcaaaat tcagaagaat 120
aaaaaatggg aacatacaga actctaaaag atagacatca gaaattgttg agttaagctt 180
tttcaaaaaa tcagcaattc ccagcgtag tcaagggtgg acactgcacg ctctggcatg 240
atgggatggc gaccgggcaa gctttcttcc tcgagatgct ctgctgcttg agagctattg 300
ctttgttaag atataaaaag gggtttcttt ttgtcttct gtaaggttna cttccagctt 360
ttgattgaaa gtcctagggg gattctatct ctgctgtgat ttatctgctg aaagctcag 419

```

```

<210> 1190
<211> 173
<212> DNA

```

<213> Homo sapiens

<400> 1190

```
ccagggtactg gcacatcatg ctctggatgg ggggtgggtgt gtcctgtagg cagagaaaca 60
ggaaattgtc gtagtcagta tcgagcagcg tggcctcggt cgccaccgta tagttgatct 120
tgaacttctt tggattctca gtcttctctc caaggacctt cttctcaaca cag          173
```

<210> 1191

<211> 341

<212> DNA

<213> Homo sapiens

<400> 1191

```
cctcctgccg gcagttcttg aagcttcttt ttcattcctg ctactctacc tgtatttctc 60
agttgcagca ctgagtgggtc aaaatacatt tctgggccac ctacagggaac ccatgcatct 120
gcctggcatt taggcagcag agcccctgac cgtcccccac agggctctgc ctacagtcct 180
catctcattt ggctgtgtaa agaaatggga aaagggaata ggagagagca attgaggcag 240
ttgaccatat tcagttttat ttattttatt ttaatttggt cttttctcca agtccaccag 300
tctctgaaat tagaacagta ggcggtatga gataatcagg a          341
```

<210> 1192

<211> 324

<212> DNA

<213> Homo sapiens

<400> 1192

```
ttggagggtg ggggagggg gctgaaggct agcaaaccga gcgatcatgt cgcacaaaca 60
aatttactat tcggacaaat acgacgacga ggagtttgag tatcgacatg tcatgctgcc 120
caaggacata gccaaagctgg tccctaaaaac ccattctgat tctgaatctg aatggaggaa 180
tcttggcggt cagcagagtc agggatgggt ccatttatat atccatgaac cagaacctca 240
catcttgctg ttccggcgcc cactacccaa gaaaccaaag aaatgaagct ggcaagctac 300
ttttcagcct caagctttac acag          324
```

<210> 1193

<211> 521

<212> DNA

<213> Homo sapiens

<400> 1193

```
ctgctttggt ttctgttgcc agtggaggga caagggtgaga ggagccaggg gtagtcatga 60
acaccagtgg gttctgccct gggcagctcc ccaccttctt taagagagta ctgtgtctca 120
gctccagcag tctcaactgg gaagaccag gactcctgct cttttctcta atccctggga 180
gacgagggtc agctaaggta gagtaagcag tcagtgaacca ggcaggctgg tttgggaggt 240
cactgcctgg aggacgggat cttgtattct tcggaagatg gctgggaaat tcttccctcc 300
attacgtaga actttcttcc cctcctcagt tgaggtgcct agatgtccca caacgggggtc 360
ttcactcagg tcttccagag gcacacgctc aaacagtggg tgctcttcga aatgagtgc 420
catccagtcg tgtagctcca gcacatcggt tatggtatac accagcccct gcataggcaa 480
aatcaccta gacaggaggc tgcattgcaac gtcagcagcc a          521
```

<210> 1194

<211> 208

<212> DNA

<213> Homo sapiens

&lt;400&gt; 1194

```

ccagtgacta gaagggcgagg cgccgcggga ccatggcggc ggccggcgac gagcgaggtc 60
cagaggacgg agaagacgag ggagaggagg agcagttggt tctggtggaa ttatcaggaa 120
ttattgattc agacttcctc tcaaaatgtg aaaataaatg caaggttttg ggcattgaca 180
ctgagaggcc cattctgcaa gtggacag                                     208

```

&lt;210&gt; 1195

&lt;211&gt; 499

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1195

```

ccagaaagga aagacaataa ttttgttttt tcattttgaa aaaattaaat gctctctcct 60
aaagattctt cacctacttt ggtctccata acttctatgt tttctttcct tctgacacac 120
tagtgccccct aaattgtgat ttgcctatac gtttagggcc ggggttggaa gatgttaaca 180
accatttaag attcatttct gcagtgaggag tgggtggagt ttcaccctct gggaaagggg 240
caggtgacag gtatttatca gtcagtgcct ctctagctct tgtagggaaga agcacacgca 300
ggatggagtc tagaggatga gcgatattga ctagcaattc atgggctccc tccagcagtg 360
cgagggtcag agtttctgga gccttgggag gaggcatccc tgtgaggggg ggtaggggag 420
atgggagggc accaggaaaa gtgattagaa gtcaggtatg ggaaggctaa attaggacag 480
agtcgagtac atctctgct                                     499

```

&lt;210&gt; 1196

&lt;211&gt; 455

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1196

```

ctgaccccc tttgtccaca gctaagatgg cagcagaatg ctatgtcact atatacagaa 60
acaagacaac ctgaagctaa atggatgccc cctgcagagt caacaggtcc agcctcacag 120
tgcacgcctt gagctacagc ctctcccaaa aggcattctc cccacagcct caacgccgag 180
caaggagcat caagggtttg tctcggttgt tttgttcttt ttacaaacta tagatatata 240
cagttgaaaa ctcaggattt ctagccaata accatagtta ccaccacctt acaaaataaaa 300
agaaaatgcc agaaacatct ttaaattgct tgtcacacca acagcaaagt gcacagagtg 360
aggagaacac gagagtgcct tttcatttta aaaatgtttg gaaatatgta caacttcgat 420
acagtttcag ggtgctccag acacccatgg acctg                                     455

```

&lt;210&gt; 1197

&lt;211&gt; 444

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1197

```

cctggatgtg gctcttgcga ctgaaggcca agtagtagat cacaaggccg atcgccgcag 60
ccagcacctc agtggacacc cagggcccgt tccaagtgcc ccgatggtcc acgctgactg 120
taaacagagg cgggatgatg gaaatgtcct cgttattcct ctgagccttc ctgaggaggc 180
tgtaggactc ctgctcgaag aatctaacct cataggtgcc tgcgtgggag ctcttgttgt 240
tcaggcttca ggacacctga taacgcccc catcctggcc tcgagtgaca gggaattgtt 300
ttccaccgac gtcagcatag agagccatgt tctggaccct gttcttgcat gtcagggaga 360
tctccacaat gaagacgggtc tcagtggaaa tgacagcgtc agaagtgggt tagtaggaag 420
gggtgatctg gggctccagg cagg                                     444

```

&lt;210&gt; 1198

&lt;211&gt; 450

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1198

```

ccatgggtgt ctggagcacc ctgaaactgt atcaaagttg tacatatttc caaacatttt 60
taaaatgaaa aggcactctc gtgttctcct cactctgtgc actttgctgt tgggtgtgaca 120
aggcatttaa agatgtttct ggcattttct ttttatttgt aagggtggtg taactatggt 180
tattggctag aaatcctgag ttttcaactg tatatatcta tagtttgtaa aaagaacaaa 240
acaaccgaga caaaccttg atgctccttg ctgcgcgttg aggctgtggg gaagatgcct 300
tttgggagag gctgtagctc agggcggtgca ctgtgaggct ggacctgttg actccgcagg 360
gggcatccat ttagcttcag gttgtcttgt ttctgtatat agtgacatag cattctgctg 420
ccatcttagc tgtggacaaa ggggggtcag 450

```

&lt;210&gt; 1199

&lt;211&gt; 294

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1199

```

agtcacagtt gcacctattc aaaactagct ttaaagtgag ctatttttaa acttcataaa 60
aatattcatg attttattag tttgaatatt tctacaagat tcgggtgggc ttttccttta 120
ggtgaaaaca gctatccact cctgtggcct tataactcag gaaatgctgg ggatgcaaac 180
gtgcaaaagg cagggggaag ctgccaggc tgagactgga gcagctagga gtgtgcttgg 240
ggaacgggag ctgagatccc ggagcagaaa tggtcagccg tgctctggag cagg 294

```

&lt;210&gt; 1200

&lt;211&gt; 258

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1200

```

agctacctaa gaacagctaa aagagcacac ccgtctatgt agcaaaaatag tgggaagatt 60
tataggtaga ggcgacaaac ctaccgagcc tggtagatgc tggttgtcca agatagaatc 120
ttagttcaac tttaaatttg cccacagaac cctctaaaac ccttgtaaaa ttttaactgtt 180
agtccaaaga ggaacagctc tttggacact aggaaaaaac cttgtagaga gagtaaaaaa 240
tttaacaccc atagtagg 258

```

&lt;210&gt; 1201

&lt;211&gt; 403

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1201

```

ctgagctgct gtctgctttg gaaaaccgtt cctgcgcgtg ccgatggatg gaaatgcaat 60
ggatttcagc ttcttatcat cagccagggc caagcagttt ttactgtct tttccagaag 120
ttcttcacac ttgtctgcac cccaaactgg actattacag tggatcacia acttggcagg 180
caggccatgg cctgcgctga cagcagctcc agctacttcc aagggcccggt tctttttccg 240
gagttccagg acagcttcca caaactcctt gccacctttc ttctccagcg tgtttcctag 300
gtcatcttta aggtcaatgt cagcattggg aggattgatt atggcctcca cctcaaagcc 360
ggctaaatta ctgatttcac tgtgaataag gttcggcttc tgg 403

```

&lt;210&gt; 1202

&lt;211&gt; 325

&lt;212&gt; DNA

<213> Homo sapiens

<400> 1202

```
ctgaacctgc gggagtcggc caccatcacg tgcttgggtga cgggcttctc tcccgcggac 60
gtcttcgtgc agtggatgca gagggggcag cccttgctcc cggagaagta tgtgaccagc 120
gcccgaatgc ctgagcccca ggcccaggc cggtaacttcg cccacagcat cctgaccgtg 180
tccgaagagg aatggaacac gggggagacc tacacctgcg tgggtggccct tgaggccctg 240
cccaacaggg tcaccgagag gaccgtggac aagtccaccg gtaaaccacac cctgtacaac 300
gtgtccctgg tcatgtccga cacag                                     325
```

<210> 1203

<211> 518

<212> DNA

<213> Homo sapiens

<400> 1203

```
ctcaaccaca gtctgacacc agagcccact tccatcctct ctggtgtgag gcacagcgag 60
ggcagcatct ggaggagctc tgcagcctcc acacctacca cgacctccca gggctgggct 120
caggaaaaac cagccactgc tttacaggac aggggggtga agctgagccc cgctcacac 180
ccacccccat gactcaaag attggatttt acagctactt gcaattcaaa attcagaaga 240
ataaaaaatg ggaacataca gaactctaaa agatagacat cagaaattgt taagttaagc 300
tttttcaaaa aaccagcaat tccccagcgt agtcaagggt ggacactgca cgctctggca 360
tgatgggatg gcgaccgggc aagctttctt cctcgagatg ctctgctgct tgagagctat 420
tgctttgtta agatataaaa aggggtttct ttttgtcttt ctgtaagggtg gacttccagc 480
ttttgattga aagtcctagg gtgattctat ttctgctg                                     518
```

<210> 1204

<211> 352

<212> DNA

<213> Homo sapiens

<400> 1204

```
ggggaaagga ggtctcactg agcaccgctc cagcatccgg acaccacagc ggcccttcgc 60
tccacgcaga aaaccacact tctcaaacct tcaactcaaca ctctcttccc caaagccaga 120
agatgcacaa ggaggaacat gaggtggctg tgctgggggc acccccacgc accatccttc 180
caaggtccac cgtgatcaac atccacagcg agacctcgt gcccgaccat gtcgtctggg 240
ccctgttcaa caccctcttc ttgaactggg gctgtctggg cttcatagca ttgcctact 300
ccgtgaagtc tagggacagg aagatggttg gcgacgtgac cggggcccag ga 352
```

<210> 1205

<211> 250

<212> DNA

<213> Homo sapiens

<400> 1205

```
ctgttcaact tccaactcta aataggcacc attaaacaaa aaaccccagt attttaaatt 60
tctccagcac acattccagg atcaatgctc tgaactgtaa tcagctagta attcataacg 120
ggaatacagc cttagaatgg aagctatatt gcttccctgc cccctttctc ttacaattgg 180
agagtgtagg tattaaggga taaaaagtca gaggaagaat aattaaaaag aaaaatgccc 240
aaagctgcag                                     250
```

<210> 1206

<211> 275

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 10, 11, 13, 236, 237

<223> n = A,T,C or G

<400> 1206

```
ctgctctcgn ngnctcactg gatggaccag cacttccgca cgacgcccct ggagaagaac 60
gcccccgctc tgctggccct gctgggtatc tggtagatca actgcttttg gtgtgagaca 120
cacgccatgc tgccctatga ccagtacctg caccgctttg ctgcgtactt ccagcagggc 180
gacatggagt ccaatgggaa atacatcacc aaatctggaa cccgtgtgga ccaccnnaca 240
ggccccattg tgtgggggga gccagggacc aatgg 275
```

<210> 1207

<211> 182

<212> DNA

<213> Homo sapiens

<400> 1207

```
ccatctcctg ctccaagtcc agggcgacgt agcacagctt ctccttgatg tcgcgcacga 60
tttcccgcctc ggccgtgggtg gtgaagctgt agcctcgctc agtgaggatc ttcattgaggt 120
agtcgggtcag gtcccggcca gccagggtcca gacgcaggat ggcgtggggg agggcgtagc 180
cc 182
```

<210> 1208

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 130, 154, 167, 176, 240

<223> n = A,T,C or G

<400> 1208

```
gctggttatg aactcctgac ctcaagtgat ctgccctcct cagcctccca aagtgtctggg 60
attataggca tgagccactg gaatttttct tttttttttt ctttcttttt tttttttttt 120
ttaaattgan acaaggtctg gctctatcgc ccangctgga gtgcagnggc accatntcgg 180
ctcactgcaa cctctgcctg ctgggctcga gccatcctcc cacctcagcc toccaagtan 240
ttgggactag aggtatgcac 260
```

<210> 1209

<211> 487

<212> DNA

<213> Homo sapiens

<400> 1209

```
aaaccactc caccttacta ccagacaacc ttagccaaac catttaccba aataaagtat 60
aggcgataga aattgaaacc tggcgcaata gatatagtag cgcaaggga agatgaaaaa 120
ctataaccaa gcataatata gcaaggacta atccctatac cttctgcata atgaattaac 180
tagaaataac tttgcaagga gagccaaagc taagaccccc gaaaccagac gagctaccta 240
agaacagcta aaagagcaca cccgtctatg tagcaaaata gtgggaagat ttataggtag 300
aggcgacaaa cctaccgagc ctggtgatag ctggttgctc aagatagaat cttagttaa 360
```



```

ctttaaatTTT gccacagaa ccctctaaat ccccttgtaa atttaactgt tagtccaaag 420
aggaacagct ctttgacac taggaaaaaa ccttgtagag agagtaaaaa atttaacacc 480
catagta                                         487

```

```

<210> 1210
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<400> 1210
ccactcagct cagcggggcga cgtgccccta caagttggca gaagtggctg ccaactgctgg 60
gtttgtgtaa gagaggctgc tgccaccatt acctgcagaa accttctcat aggggctacg 120
atcgggtactg ctagggggca catagcgccc atggatgtgg taggtggggg actcgcctcat 180
aggatggtag gtatcccggg ctggaaagat gtccag                                         216

```

```

<210> 1211
<211> 443
<212> DNA
<213> Homo sapiens

```

```

<400> 1211
ccaaggtcag aggctgatgc aacaggccct cttctcccca gggccagget cctgtccagc 60
ctgggcactg cccagagtga tggcattggg ccggatgctg ttctgtctct gcttggacac 120
cttcgcaaag atttctttca ggacagtctc aaaggctagc tcaacattgg tagagtccag 180
ggctgaggtc tccaggaaga gcagtccatt gttttcagcg aacattcggg cctcctcagt 240
gggcacttcc cgggcctggc tgaggtcact tttgttacct acgagcatga cgacgatcgt 300
ggcttcagca tggatcataga gctccttcag ccacgcctcc accacagcat aggtctgggtg 360
cttggttagg tcaaacacca ggaggggccc cactgcacca cgatagtacg ccgagggtgat 420
ggctcggtac cgctccaggc cag                                         443

```

```

<210> 1212
<211> 526
<212> DNA
<213> Homo sapiens

```

```

<400> 1212
actgaaaccc gagtaaattgc tcaggctgct gcatatgaat acatggctgc atacatagaa 60
aatgcgaaac aggttggccg ccttgaaaat gcaatcgggt ggtatcatag ccaccctggc 120
tatggctgct ggctttctgg gattgatgtt agtactcaga tgctcaatca gcagttccag 180
gaaccatttg tagcagtggg gattgatcca acaagaacaa tatccgcagg gaaagtgaat 240
cttggcgcct ttaggacata cccaaagggc taaaaacctc ctgatgaagg accttctgag 300
taccagacta ttccacttaa taaaatagaa gattttgggt taaactgcaa acaatattat 360
gccttagaag tctcatatTTT caaatcctct ttggatcgca aattgcttga gctgttgtgg 420
aataaatact gggatgaatac gttgagttct tctagcttgc ttactaatgc agactatacc 480
actggtcagg tctttgattt gtctgaaaag ttagagcagt cagaag                                         526

```

```

<210> 1213
<211> 359
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 15, 255, 258, 321, 322, 357

```

<223> n = A,T,C or G

<400> 1213

```
ccagccattg cctgncattt ggtagtatag tatgattctc accattatth gtcattggagg 60
cagacataca ccagaaatgg gggagaaaca gtacatatct ttctgtcttt agttttattgt 120
gtgctgggtct aagcaagctg agatcatttg caatggaaaa cacgtaactt gttttaaagt 180
ttttctggta gcttttagctt tatgctaaaa aaaataatga cattgggtat ctatttcttt 240
ctaagactac attantanga aaataagtct tttcatgctt atgatttagc tgttttgtgg 300
taattgcttt ttaaaggaag nnattaatat cataagttat tattaatatt gtgaacnca 359
```

<210> 1214

<211> 428

<212> DNA

<213> Homo sapiens

<400> 1214

```
ccaagcttga ggcagcccta ggtgaggcca agaagcaact tcaggatgag atgctgcggc 60
gggtggatgc tgagaacagg ctgcagacca tgaaggagga actggacttc cagaagaaca 120
totacagtga ggagctgcgt gagaccaagc gccgtcatga gacccgactg gtggagattg 180
acaatgggaa gcagcgtgag tttgagagcc ggctggcgga tgcgctgcag gaactgcggg 240
cccagcatga ggaccaggtg gagcagtata agaaggagct ggagaagact tattctgcca 300
agctggacaa tgccaggcag tctgctgaga ggaacagcaa cctggtgggg gctgcccacg 360
aggagctgca gcagtcgcgc atccgcatcg acagcctctc tgcccagctc agccagctcc 420
agaagcag 428
```

<210> 1215

<211> 414

<212> DNA

<213> Homo sapiens

<400> 1215

```
ctgaagcact cttcagagac tacgtccaca gacactgatg ctgaggcctt tcttgtaagt 60
gaagaaaaag gaatgcagca aagaagagtt cgacattgga gtccttagtt ccatcaggat 120
cccattcgca gccttttagca tcatgtagaa gcaaaactgca cctatggctg agataggtgc 180
aatgacctac aagattttgt gttttctagc tgtccaggaa aagccatctt cagtcttgct 240
gacagtcaaa gagcaagtga aaccatttcc agcctaaact acataaaaagc agccgaacca 300
atgattaaag acctctaagg ctccataatc atcattaaat atgcccacaa tcattgtgac 360
tttttatatt atatacagga ttaaaatcaa cattaaatca tcttatattac atgg 414
```

<210> 1216

<211> 162

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 118, 119, 148

<223> n = A,T,C or G

<400> 1216

```
cctggcgcga ggggtccccg gtattgctgt tgctacgagg ttggggggca gcgattgtcc 60
tgtgggagcc accgttctcc tgggtcgggg accctcactt cttctggggg gtgctcannt 120
tctgcatgcc ccggatcttg tccagcangc cagaaatgaa gg 162
```

<210> 1217  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 306  
 <223> n = A,T,C or G

<400> 1217  
 ctgaagtaga ggctggaact gaagctgaga ctgaggctga ggctgaaact ggagctaagg 60  
 gtgaggctgg aactggagct gaggttgagg ccagaactgg agctaaagtt gaggctggaa 120  
 ccggagctga ggttgaggct ggaactggag ttaagggtgc tggagtgga gctgaggttg 180  
 aggctggaac tgaagctgag gttgaagggtg gaagtggagc cgaagctaga ggtggaactg 240  
 aggcctgaaga ctgtgcttgc tggatccctg tagcctgttt tttggcaaact cttggaggaa 300  
 gcttanaagt ctggcttctt cctttttcat ttgcattctt tttgttcag accttaaaaa 360  
 attaacgggg accatttttg tcaataatgc ag 392

<210> 1218  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 379, 447, 470, 501  
 <223> n = A,T,C or G

<400> 1218  
 ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60  
 agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatatac ttaacaaagc 120  
 aatagctctc aagcagcaga gcatctcgag gaagaaagct tgcccggctg ccatcccatc 180  
 atgccagagc gtgcagtgtc cacccttgac tacgctgggg aattgctgat tttttgaaaa 240  
 agcttaactt aacaattttc gatgtctatc ctttagagtt ctgtatgttc ccatttttta 300  
 ttcttctgaa ttttgaattg caagtagctg taaaatccaa tctttgagtg catgggggtg 360  
 ggtgtgaggc ggggctcanc ttcaaccccc tgtcctgtaa agcagtggct ggtttttcct 420  
 gagcccagcc ctgggagggtc gtggtangtg tggaggctgc agagctcctn cagatgctgc 480  
 cctcgctgtg cctcacacca nagaggatgg aagtgggctc tgggtg 526

<210> 1219  
 <211> 382  
 <212> DNA  
 <213> Homo sapiens

<400> 1219  
 ctggccggcg gtgcagatct ggagtccagc ctcagggatg cgctactttc cattctctgc 60  
 attgaacatt cgttctgtca gcatccgctc cagcttcact gcatcagcgg caaacttgcg 120  
 gatcccgctc gagagcttct ccacagccat ctggctcctg ttgtgcaacc aacggaaaga 180  
 cttctcatcc aggtggattt tttccaggtc actggcttgg gccgccttgg ctgagagcac 240  
 aggcaccagc ttggcggttg cctgcagcag ctctcccagg agcttgggtg agatggtgag 300  
 gaagtcacag ccggccagtg ctttgatctc gcccggtgtg cggaaggagg cgcccatgac 360  
 aatgggtttg tagctaaact tc 382

<210> 1220  
 <211> 127  
 <212> DNA  
 <213> Homo sapiens

<400> 1220  
 tcgacctcct tgaagcagac caagtatagc aagcctctaa aaggactact gagaaacaga 60  
 atcagaaact ctagaactct agttagggcc cttcagcagg gctgcagagc ctccctggat 120  
 acccagg 127

<210> 1221  
 <211> 304  
 <212> DNA  
 <213> Homo sapiens

<400> 1221  
 ccaccccgga gatgacacga ggctcacatg actctagaca cttggtggaa agtgaggcga 60  
 gaaaaacaat gacttgggcc aattacacga ctgcaaagct agagctgccacacagggtcc 120  
 agggagcttg gcttctgtag aagttctaag gaagcggtag gaactccacg gcgggtggggc 180  
 gctaactagc agggaccctt gcaagtgttg gtcgggggcc tcgggctgcc tgagctgaca 240  
 cgaggggagg ggtctgtgta gccaacaggt gaccgaaggg cttgcctgcc cacagcttac 300  
 ttgg 304

<210> 1222  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<400> 1222  
 ctgtcgcact cgtagctgca actcactcaa cttgtcttta gcagcaattt ctgcatagtc 60  
 attggcatgt tcacctacct ggatgtccgg gtgaactctc agcatgcctc cagcaaagag 120  
 ggagaacttg gtggaatttg agtgaagaca gatctggtgc tcaccagggg tatgggaagt 180  
 gaaagtgaac ctgccctcgg agccatactg ccgggccagg atgaccttgt cctctgggtc 240  
 ctccacctcc acaaacatgc caagccccgg ggtggccggc tgggtactcct cccgctgctt 300  
 gtcatacag 309

<210> 1223  
 <211> 390  
 <212> DNA  
 <213> Homo sapiens

<400> 1223  
 cctggcctgg gagccctgtg cctactagaa gcacattaga ttatccattc actgacagaa 60  
 caggtctttt ttgggtcctt cttctccacc acgatatact tgcagtcctc cttcttgaag 120  
 attctttggc agttgtcttt gtcataacct acaggtgtag aaacaagggt gcaacatgaa 180  
 atctctgttt cgtagcaagt gcatgtctca cagttgtcag tctgccactc cgagtttatt 240  
 ggtgtttgtt tcctttgaga tccatgcatt tcctgggtga atctcctgga actccctcat 300  
 taggtatgaa atagcatgat gcattgcata aagtcacgaa ggtggcaaag atcacaacgc 360  
 tgcccaggag aacattcatt gtgataagca 390

<210> 1224  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

<400> 1224  
 ccttatgact acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60  
 tccgggcctc cctccaagga gattctgacc ctgaagcagg tccaggagtt cctgaaggat 120  
 ggagacgatg tcatcatcat cggggctctt aagggggaga gtgacccagc ctaccagcaa 180  
 taccaggatg ccgctaacaa cctgagagaa gattacaaat ttcaccacac tttcagcaca 240  
 gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaaa 300  
 ttccagtcca agtatgagcc ccggagccac atgatggacg tccagggctc caccagggac 360  
 tcggccatca aggacttcgt gctgaagtac gcctgcccc tggttgg 407

<210> 1225  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<400> 1225  
 ctgcagcttt gggcattttt ctttttaatt attcttcttc tgactttgta tcccttaata 60  
 cctacactct ccaattgtaa gagaaagggg gcaggggaagc aatatagctt ccattctaag 120  
 gctgtattcc cgttatgaat tactagctga ttacagttca gagcattgat cctggaatgt 180  
 gtgctggaga aattttaaact actgggggtt tttgtttaat ggtgcctgtt tagagttgga 240  
 agttgaacag 250

<210> 1226  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 427  
 <223> n = A,T,C or G

<400> 1226  
 ccttttaggct gttgctctgg gcaggggggtg ggggtgcggg ggcttacagt gggggccctt 60  
 agttggcaca ggttcggaag ggccccaggc agacatgaat tctcctgaga cttgaggtag 120  
 gttgcttcag ccagcccggg cggagaagaa gggcagagag cgaacatagg agtccagtcg 180  
 ggagcgaaaag agctcacttt gcacagtttg gccagcggg cacaggggat tcttcaccac 240  
 cagctccaca tacagcgcac tgtagatgtg gtgcagcaca tctcgatgg gtcccacgcc 300  
 caagtcagta ttcatgacaa ctttgatccc agtgggcgtc tcgtagtaat ggagtttgta 360  
 acggctagtt tggaaggcca ggaagccatc cttcatgtct agcggggaca tcttgctgac 420  
 aaacganogg atagagaaga gcat 444

<210> 1227  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<400> 1227  
 gttagcctta catgttgtgt agacttactt taagtttgca cccttgaaat gtgtcatatc 60  
 aattttctgga ttcataatag caagattagc aaaggataaa tgccgaaggt cacttcattc 120  
 tggacacagt tggatcaata ctgattaagt agaaaatcca agctttgctt gagaactttt 180  
 gtaacgtgga gagtaaaaag tatcggtttt attctttgct gatgtccttt ctgcttgaaa 240  
 taacagtcac catacagcta aaggagagga gtttctttcc ttctaagtag gcagaaatgg 300  
 tatcattatg ttgccgctct ccaatctccc agagctcgtc ctctagagaa tcaccttctt 360

```

tcgctttttt ttttttttg aggtagagtc tcaactatggt gccagacta gcottgaact 420
cctgggctca agtgattctc cctcctcagc ctcccagagta gctggaacga actatagttg 480
caccactgca g                                     491

```

```

<210> 1228
<211> 279
<212> DNA
<213> Homo sapiens

```

```

<400> 1228
ctgggcggtat ctgatcaact aggcaacatc atgtccggat atgagttcat caacaagttg 60
actggagaag atgtatttgg aatcaccgtt cctctaatta caagtacaac tggagcaaag 120
ctgggaaagt ctgctggcaa tgcgtgttgg ctaaacagag ataagacatc tccatttgaa 180
ttgtatcaat tctttgtcag gcaaccggac gattcagtgg aaaggtacct gaagctgttc 240
actttcctac cccttcacga gattgatcat atcatgcag                                     279

```

```

<210> 1229
<211> 199
<212> DNA
<213> Homo sapiens

```

```

<400> 1229
cggccgaggt ccagtcacaac ctgctcctca ttattgtata aatgagcaga atcaatatgg 60
cggaagccag cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct 120
gcaggcgcat aggtgccaaa tcccaggaca ggcatagaat gaccatcatt cagcttcaca 180
cactgatatt tcgaatcca                                     199

```

```

<210> 1230
<211> 237
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9, 12
<223> n = A,T,C or G

```

```

<400> 1230
ctgcattgnt gnggaattca caactactca ggctgggaaa atacagattg gttcaaagaa 60
accaaaaacc agagtgtccc tcttagctgc tgcagagaga ctgccagcaa ttgtaatggc 120
agcctggccc acccttcgga cctctatgct gaggggtgtg aggctctagt agtgaagaag 180
ctacaagaaa tcatgatgca tgtgatctgg gccgcactgg catttgcagc tattcag   237

```

```

<210> 1231
<211> 277
<212> DNA
<213> Homo sapiens

```

```

<400> 1231
ctggaggtgc ctcagaaggt gcattctgct tcttgcaggg gcttgaaaca ccaaggcact 60
ccagggatcc tggagtcaaa gcagcagccc cggttgttgc actccttggg ggtgacatgg 120
gggtagccgc agtccacctt gtccttggct ggcacggcac actggtttgc agacaggccc 180
acgtactcct cagcagagct ggaggacagc aaggccagga ccagccccag catgcagagc 240
gctctggcag ccatgaccac cgtgggctcc gggacgc                                     277

```

<210> 1232  
 <211> 348  
 <212> DNA  
 <213> Homo sapiens

<400> 1232  
 ctgcaacttt ttttttttgc aattacagag tggatttcag ttaacagaac aacaattatt 60  
 togtataagc tgcacacagag acaactgaag atgaaaaaac taccatcccc atatataact 120  
 aatttgtgct gtgcaccaac aagaacctgc tttaaatttc catgcccaatt tacaaccccc 180  
 atactgtacc aggcaagggt agtggctatt gaaaatacca ccaggacagg gctatctaaa 240  
 gacacattcg gtagtgtgtt aactatacaa aaaaagacac tgtacagttt aaaaacaaat 300  
 cttacacagc cttacatttc aatttttttc tttaaaagga gtgagttg 348

<210> 1233  
 <211> 312  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 160, 163, 241, 302  
 <223> n = A,T,C or G

<400> 1233  
 ctgagcgtac ggccgcgttc atcccagccg cgggtgcccc cacgttgatg acagctacgt 60  
 tgcaattggc ctttgggata tgatcatccg gcagcttgat ggcaagtcgc ttgtaggtgt 120  
 tcagggttgc cgcaaagctc ctccctcgga gtccgaaccn atnttgaaat ctctctcgt 180  
 ccacgcctt ctgcacatcc tgagtcactc gcacgcactc catcagcggc aggcgcacgg 240  
 ngtggttccc gttcagtgac acgacgcaag ctgggggtgc cggggtggcc tctagcaagg 300  
 cnatgactgc ct 312

<210> 1234  
 <211> 151  
 <212> DNA  
 <213> Homo sapiens

<400> 1234  
 ccggccgcgg gcataaaagg cgccaggtga gggcctcgcc gctcctcccg cgaatcgcag 60  
 cttctgagac cagggttgct ccgtccgtgc tccgcctcgc catgacttcc tacagctatc 120  
 gccagtcgtc ggccacgtcg tccttcggag g 151

<210> 1235  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 10, 15, 17, 107, 161, 189  
 <223> n = A,T,C or G

<400> 1235  
 ctgcaccttn gggcntnttt ctttttaatt attcttcttc tgacttttga tcccttaata 60

```
cctacactct ccaattgtaa gagaaagggg gcaggggaagc aatatancctt ccatttctaag 120
gctgtattcc cgttatgaat tactagctga ttacagttca nagcattgat cctggaatgt 180
gtgctggana aatttaaaat actgggggttt tttgtttaat ggtgcctggt tagagttgga 240
agttgaacag                                     250
```

```
<210> 1236
<211> 154
<212> DNA
<213> Homo sapiens
```

```
<400> 1236
ctgatccttc ctattgtggg caccatcgct ggcacgtca ttctcagcat gataattgca 60
ttgattgtca cagcaagatc aaataacaaa acgaagcata ttgaagaaga gaacttgatt 120
gacgaagact ttcaaaatct aaaactgcgg tcga                                     154
```

```
<210> 1237
<211> 375
<212> DNA
<213> Homo sapiens
```

```
<400> 1237
ccactggatc tttgggatta aagctctggt ggatttgtac ctacagaggaa gatcaagtgg 60
ctgatccttt ggactctgta aagagcattc ttctagtcag aggggtggaat ggcagcagca 120
actggaagaa aatgagtttt ttggtgcccc caccacagag cacacacatg ctgcactgtc 180
tcggaaagca gggccagcta gagccacat gttcttctt acctcagttt acctgcggcc 240
tgcgtgcac tgcagatgcc caccctgcc tgggtctggc cggcggaagc tctgtccaag 300
gtccacacac ctccaggttt acgccaacat ccttgtgccc tccccacctt ctcttccaac 360
gcattaggtg cattg                                     375
```

```
<210> 1238
<211> 454
<212> DNA
<213> Homo sapiens
```

```
<400> 1238
gtcaagatca agttcaatat catcgctctt ctctatgact acaaccccaa cctggcaacc 60
tacatgaagc cagagatgtg ggggaagtgc ctggactgca tcaatgagct gatggatata 120
ctgtttgcaa atcccaacat tttgtttgga gagaatattc cggaagagag tgagaacctg 180
cacaacgctg accagccact gcgtgtccgt ggctgcatcc taactctggt ggaacgaatg 240
gatgaagaat ttacaaaaat aatgcaaaat actgaccctc actccaagag tacgtggagc 300
acttgaagga tgaggccag gtgtgtgcca tcatcgagcg tgtgcagcgc tacctggagg 360
agaagggcac taccgaggag gtctgccgca tctacctgct gcgcacctg cacacctact 420
acaagtttga ttacaaggcc catcagcgac agac                                     454
```

```
<210> 1239
<211> 483
<212> DNA
<213> Homo sapiens
```

```
<400> 1239
ctgccaggct gaaaagaagc ctacagctccc acaccgccct cctcaccgcc cttcctcggg 60
agtcacttcc actggtggac caccggcccc cagccctgtg tcggccttgt ctgtctcagc 120
tcaaccacag tctgacacca gagcccactt ccctcctctc tgggtgtgagg cacagcgagg 180
gcagcatctg gaggagctct gcagcctcca cacctaccac gacctcccag ggctgggctc 240
```



```
<210> 1240
<211> 358
<212> DNA
<213> Homo sapiens
```

```
<210> 1241
<211> 194
<212> DNA
<213> Homo sapiens
```

```
<210> 1242
<211> 316
<212> DNA
<213> Homo sapiens
```

```
<210> 1243
<211> 275
<212> DNA
<213> Homo sapiens
```

```
<400> 1243
aaaagggtga tgaaagtatt atgtataata ttataatggt aaatatgtga tatgaatttg 60
ttgaaatcaa cagaatatac agcataaagg gttaattcca attcacaaaa atataaataa 120
ataggagatt aggaattcca ggatagaatg cagacaatat agaaaatatc taatgtcatt 180
acaaatgtat gaaatcagaa gaggtgccaa gtgacctcag aaatagtgtg gtcaataaaa 240
gaataaagaa aqtgcacqtc agaactgtac cccag                                     275
```

<210> 1244  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<400> 1244  
 ctgctgcgct tggataacaa gtaattcaac gcacgcactt aacagaaatg ttaaactata 60  
 acaagcacca ttgaggatt aacaggaaca tttttttgaa gatttcaaac gaactcgact 120  
 ttcagtataa ttgtacctaa agtatttata aacagctcat cggagcctct atttgtcata 180  
 gactttttgag ttgattgttg ggaccacata ataggaccat tttttttttg tcttt 235

<210> 1245  
 <211> 640  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 565  
 <223> n = A,T,C or G

<400> 1245  
 ctgatgatgt tccacaaaag agcaaaacat acacaatctg gttccactct acagaaatcc 60  
 tggaaactgga ctacaaaggg aatagacagg gtgtggcagg aggggggttcc tcacgggttg 120  
 agtgcgaggt tagggacagg aatagaaggy aggtaataaa cattcatgtg gtattaacag 180  
 ggcagatgtg tcaatrtatt tscaagttta gcataatata ggtataaaaa ttaaataaaa 240  
 atagttttaka tgtgtgtgta tatatgggtt aatacacaca acatacctcc tagagtcatt 300  
 acctgagagg ttctacaaga aaagacagca aattaacaaa aaatacaccc agaatcaaga 360  
 tttgagtttt ggttcctttc atagcagaat ggtatgcaac atttcttgga aaaatggcta 420  
 atcctagggc ttggaaagag aatataggag taaagtctac aatttctcat ggtaccaga 480  
 aaataagaaa gggttccaaa atgaagaatc gtccttttg caaaccttat ggtaacaaat 540  
 ataatatatta taaaaagtga attangtaat atgttaatgg agaaaataaac atcattatga 600  
 aatgctatct taacaaaaaa targagaaaa twttagtgtt 640

<210> 1246  
 <211> 509  
 <212> DNA  
 <213> Homo sapiens

<400> 1246  
 aaactttcaa agaatcactt ttaggcttac aaaaataaat atttgtcaaa atgttcaata 60  
 aatattacat aaaactagca gcaaaaagta tctagaaatc tgtcgtgtgc aaatagtttt 120  
 cttcccaact atcattccca tgggtcccaa taaatttttag aatctagtcc catccccctc 180  
 ctagacaagc tgcgttcaac aatctccaag agacaaagta agattggaag ttttaaggaca 240  
 cgcacacaag acatatatat aaaatttctc gaatgtgcaa taaaagaagt actttgtaaa 300  
 aagttttggg caaaatgtac aagggcctaa acctagacta attgaaatag caccataaca 360  
 aatgacctca atactgtcaa gtgcacctac ttaataaaaag ttttagaaca aggcacaata 420  
 cacttgaaaa tctattgcac tttaggaaat ttttgccgtc ttcctatgcc actgtaaaaa 480  
 gatggagcgt tttgatcacc gcattctgg 509

<210> 1247  
 <211> 310  
 <212> DNA

<213> Homo sapiens

<400> 1247

```

catatgtgga actattcttg gaaagtctac aaagtgaat ctatcgagtt atttctcatt 60
tgcaaagtga tcctttgagt catttctcat aatctataat ctgaatgtta atactgatat 120
ttttaaaagc cctacatccc aacagaccag gccatctaga tatttcagcg tgggtgtctca 180
ggatgagtaa acaaacagct aaaaatatat gacttatgta aactagagtt acaggagtta 240
ctagcttttc tgaaagggat atattctaag tattttttct taaaaaaaaa aaaarggggg 300
gggggggggtt                                     310

```

<210> 1248

<211> 640

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 604

<223> n = A,T,C or G

<400> 1248

```

aaagatataa aactatggag aaaactgcta aagggtatcc ctgaccttta tgatgatgca 60
gctattttgc aggccaaaaa atcattttac tgggcaagaa aaacatctca ttcctttgtc 120
gtgaatatcc ttgctcaggc tctttatgaa ttattttctg ccacagatga ttccctgcat 180
caactaagaa aagcctgttt tctttatctc aaacttggtg gcgaatgtgt tgcgggtcct 240
gttgggctgc tttctgtatt gtctcctaac cctctagttt taattggaca cttctttgct 300
gttgcaatct atgccgtgta tttttgcttt aagtcagaac cttggattac aaaacctcga 360
gcocttctca gtagtggtgc tgtattgtac aaagcgtggt ctgtaatatt tcctctaatt 420
tactcagaaa tgaagtatat gggtcattaa gcttaaaggg gaaccatttg tgaatgaata 480
tttggaactt accaagtcct aagagacttt tggaagagga tatatatagc atagtaccat 540
accacttata aagtggaaac tcttggaaca agatttggat taatttggtt ttgaagtgtt 600
tggnatataa atatgtaaat acatgcttta attgcaattt 640

```

<210> 1249

<211> 1108

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 527

<223> n = A,T,C or G

<400> 1249

```

caaaataaat ttcaattcaa tgaaaagtaa ataacttagg gatctataaa tgacactgca 60
atgtatcttg ttccattttt aacaggaagt cttcatgca aatgtgtgag tctcccagga 120
tgcatgaagc tccagccttt tctgtgtgac tcaatagagc aattgtacct tacaaatktg 180
caaccacctc cctgaaagtc ttctcccacg ttattaagtg caatgyttat ggtaaatgta 240
gaagcatcat gatgaggacg aagagaacgc tgtcgttcag gggagtattt tactacaaaa 300
ttcagtagtg caaatccctt cgtataatag cctgcaaaga cttcagtggt aactgggtgca 360
atgaactccc ggataaaatg aagccatata ttctccagat caacttgctt catgtggata 420
tcatcagttg ggacattttc ataaccacca gatatacggc tatcatgatg tttttcccca 480
gaccatttgc cgtaatgttc catttcttct accaattcat cacaggnctt tttcagaaaa 540
tatggggaac cmaaaagaca tctggacagg gctgttcaam ctatattttc agtgaaaatc 600

```

```

tttgaataat ccmcggttta tatacttttc ottccagttc acaggatttt caaaaatctg 660
ccagaggtca ttgttataat gggaagtatt gtaattagca gtggataata gccttccaaa 720
ttcatgtcta ttagaaatgt acataaatac accctttggg gggctgagca tttggaatgt 780
ttccggagta ggggagtctt tttccctttg taaagtcatt tctctagcat ttccggcaaag 840
agccatatca ggatccagtt tatcacgaac aaaatagctc ctttcattca tctctgacg 900
gagtgtcttt cttttaatta agtacacatt agccatatat gggacattcc atactcctac 960
tctattccct tgaacaatat ccacataatc ttcagatcgt gcatagtatc catcaggact 1020
caatgctccc cagaaattgg accacagctt tccatgacga gttacaagag gagcaatgat 1080
ctttctgttt tgttcaatca aaattttt 1108

```

<210> 1250

<211> 567

<212> DNA

<213> Homo sapiens

<400> 1250

```

ctgaatattg aactggaagc agcacatcat taggctttat gactgggtgt gtgttgtgtg 60
tatgtaatac ataatgttta ttgtacagat gtgtggggtt tgtgttttat gatacattac 120
agccaaatta tttgttgggt tatggacata ctgccctttc attttttttc ttttccagt 180
tttaggtgat ctcaaattag gaaatgcatt taacctatga aaagatgagt gctaaagtaa 240
gcttttttag gccctttgccc aataggtagt cattcaatct ggtattgatc ttttcacaaa 300
taacagaact gagaaacttt tatatataac tgatgatcac ataaaacaga tttgcataaa 360
attaccatga ttgctttatg tttatatatta acttgtatgt ttgtacaaac aagattgtgt 420
aagatatatt tgaagtttca gtgatttaac agtctttcca acttttcatg atttttatga 480
gcacagactt tcaagaaaat acttgaaaat aaattacatt gccttttgtc cattaatcag 540
caaataaaaac atggccttaa ctaaaaaa 567

```

<210> 1251

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 161, 175, 193, 200, 211, 212, 223, 228, 324, 396, 518, 546, 559, 565, 571, 584, 597, 601, 610, 613, 622, 639

<223> n = A,T,C or G

<400> 1251

```

gaaagaaacc aatttaaatgc caccaaaccat aagcctgcta tacctgggaa acaaaaaatc 60
tcacacctaa attctagcag agtaaacgat tccaactaga atgtactgta tatccatatg 120
gcacatttat gactttgtaa tatgtaattc ataatacagg nttaagggtgt gtggnatgga 180
gctaggaaaa ccnaaggagn aggaaattat nnaaaagaac tgnaggtnaa gtataaagtc 240
atatgcctga tttcctcaaa ctttttggtt ttctctatgg cttctggctt tatattttta 300
tcacaaacca agatctaaca gggntctttc tagaggatta ttagataagt aacacttgat 360
cattaagcac ggatcatgcc actcattcat gggngntcta tgttccatga actctaatag 420
cccaacttat acatggcact ccaaggggat gcttcagcca gaaagtaaag ggctgaaaaa 480
gtagaacaat acaaaaagccc tctgtgtggg ggaactgnng gctcactctt acttggcctt 540
cattcnaaac aggttgggnc tttcntgcga ngatctctca gggnggtaaa aactttnttg 600
ntttcaacan aanaggtttg gntgaatgat tactcggcng acacctaagg gatcc 655

```

<210> 1252

<211> 672

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 4, 653

<223> n = A,T,C or G

<400> 1252

```

aaantgcaaa aacccagaag accaataatt ctgaaacttg gcatgagtgt gccagtcag 60
cagcttgcaa agagaggatg tgtcagttac tacaattgct gtactccttt agctgagtc 120
ttcaactttc tccttcttgc cagtaaatac tacgttgtaa ttcatatgac tgagatctta 180
gtatcacagg attttttagct cccatgcctc cttcaaaatt gtttacatgg atttgtttct 240
attctctgta ggccatattc caaacacatt cacttctaaa tccaacacaa gtgaaggacc 300
agccaggatg aaacacttca gcaatcattt tgttaaaaat aacatcctgg tcatcaagct 360
aagcataagc acctcttgta taacaattca tcttaaaagc ttaaagtaca ataataaaaa 420
taactgcctg aaaactggaa atgaaataca acagaaaaac tgaagcatta gtaatttttg 480
caagtaaccc aggtacagta catttgattt catagagggt gttttctgat gtttaaggag 540
agggtagaag gggtaggaaa acttggcaag gaagatggaa acagcacaa cagttatttt 600
gcttttaata aagtaaatgt aatgacagga gtagggaggt gacaaacaca tcnatatata 660
tttttcttat gg                                     672

```

<210> 1253

<211> 644

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 578, 582

<223> n = A,T,C or G

<400> 1253

```

ccaaatattt gttagaaact tctggtaact tagatggctt ggaatacaag ttacatgatt 60
ttggctacag aggagtctct tcccaagaga ctgctggcat aggagcatct gctcacttgg 120
ttaacttcaa aggaacagat acagtagcag gacttgctct aattaaaaaa tattatggaa 180
cgaaagatcc tgttccaggc tattctgttc cagcagcaga acacagtacc ataacagctt 240
gggggaaaga ccatgaaaaa gatgcttttg aacatattgt aacacagttt tcatcagtgc 300
ctgtatctgt ggtcagcgat agctatgaca ttataaatgc gtgtgagaaa tatggggtga 360
agatctaaga catttaatat tatcgagaag tacacagaca ccactaataa tcagacctga 420
ttctggaaac cctcttgaca ctgtgttaaa ggttttggag atttttaggtt agaagtttcc 480
tgttactgag aactcaaagg gttacaagtt gctgccacc ttatcttaga gttattcaag 540
gggatggagt agatattaat accttacaaa gagattgnag anggcatgaa acaaaaaaatg 600
yggactattg aaaatattgc cttcgttctg gcggaggttt gctc                                     644

```

<210> 1254

<211> 438

<212> DNA

<213> Homo sapiens

<400> 1254

```

aaagggcatt tgaggggagg attattgcta tgaatgaaaa aaatatttta gcttagacta 60
agctacctgc cttcaaaata gtttagggac caccaccata ttttattttg tttttatttt 120
tgaacatttt tctaattgatt tggagagaaa actatttaca aaaattccac atatcagtga 180
tacaatttct tgctgtcacc aattttttat aatagcagag tggcctgttc taagaaggcc 240

```

```

atatttttta agttatcttt cagggtaaca tggaaatact ataaagttgg atgtcaaaact 300
ttaatatgtt ttcagtgttc tctaattttt tggaaatttt gtagacttta cacctggaaa 360
aaaagatttg taaaatcacc ggaacaattg tgtgctttat tttataggta gtgggttatta 420
gtattacatc cccatttt                                     438

```

```

<210> 1255
<211> 519
<212> DNA
<213> Homo sapiens

```

```

<400> 1255
caagcacagg ggagtttata gttctgatgt ctttgacatt ttccctggaa cataccaaac 60
cctagaaatg tttccaagaa cacctggaat ttggttactc cactgccatg tgaccgacca 120
cattcatgct ggaatggaaa ccacttacac cgttctacaa aatgaagcat cttctgagac 180
tcacaggaga atatggaatg tgatctaccc aatcacagtc agtgtgatta ttttattcca 240
aatatctacc aaggaatgac caggagaata agatcctccg atgttcgcaa tgggtgtggtg 300
tcaggaggct gcctcttaga caatctccag atgtactgtg atgtgagttt gaaaaagagt 360
tcctgaagta ccacatctgg gagacatgcc actagctgag cttcccaaaa gtctaccaag 420
agctgaggaa ttgtatcttc atccttagca caaagcacct taaaaacagt aaaaggagcc 480
tctatatctc agataaatat agcactgata aagcgacag                                     519

```

```

<210> 1256
<211> 178
<212> DNA
<213> Homo sapiens

```

```

<400> 1256
ccatgcagga gttcatgac cccccagtcg gtgcagcaaa cttcagggaa gccatgcgca 60
ttggagcaga gggtttaccac aacctgaaga atgtcatcaa ggagaaatat gggaaagatg 120
ccaccaatgt gggggatgaa ggcgggtttg ctccaacat cctggagaat aaagaagg 178

```

```

<210> 1257
<211> 255
<212> DNA
<213> Homo sapiens

```

```

<400> 1257
gggtccactt gctgccccat cattgtatca ctttccttca atcttttggc tgccactctc 60
atgtagggat ccacgggtgag gaacaaagct tcaagcagga cctctccatt ttttaagggt 120
gggagctcag atgtcttcaa ctcaaagtca ctattagtag gatagccaac aaagtgcttc 180
ttcaggggtc atgtcttagt acgaaccatc ctgaagctca ggagcccga ggttccactg 240
cctggggaag gcgggc                                     255

```

```

<210> 1258
<211> 630
<212> DNA
<213> Homo sapiens

```

```

<400> 1258
aaaactaaaa gcatactgc tgaactccag ctacgtcttc ccattttata atgaggactc 60
tgaagtttat agagggtcaag gacttgtcca aagctttaga tatgtagtgt ctgtgccctt 120
ttcctctaag tttctcctag agaatgtggg ggctcaggaa cagagaaaat aaggtgcaaa 180
aagtagaaat ggggtggtgtt tctcaaagtg tgggtccatc gcatcctagt gactgggggtg 240
cttgttaaaa tgcagattgc tgggccttat cccaatctga ccaaatcatc tcaggatcta 300

```

```
<210> 1259
<211> 159
<212> DNA
<213> Homo sapiens
```

```
<210> 1260
<211> 115
<212> DNA
<213> Homo sapiens
```

```
<210> 1261
<211> 280
<212> DNA
<213> Homo sapiens
```

```
<210> 1262
<211> 144
<212> DNA
<213> Homo sapiens
```

```
<210> 1263
<211> 487
<212> DNA
<213> Homo sapiens
```

```

aaacatcttg ataatttggt gttgagagct gttcattcta aaatgtaatg aaattcagtc 60
tagttctgct gataaagatc atcagttttg aaaggttact gatttttcctc ttccctctta 120
gttttttacc caatatatgg agaagagtaa tgggtcaatct taacattttg ttttaattgt 180
ttaataaagc tgctgggcag tgggtgcagca ttctaccta gtgtcataaa agcaaaatac 240
ttacatagct ttcttaaaat ataggaatga cattacattt ttaggagaaa gtaagttgct 300
ttgcaccgcc tacttaattc ttttccatat attgtgatac aaacttttga atatggaatc 360
ttactatttg aatagaaatg tgtatgtata atatacatc atacataagc atatatgtgt 420
gtgtgtgtgt gtatatatat atatatgcat gctgtgaaac ttgactacac aacataaatc 480
acttttt 487

```

```

<210> 1264
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<400> 1264
ctgcttcaac agagtggcag caaccaagct ggagtccaag cccctgata aaaggcagcc 60
aatccttctg tctgtcatca aacgtttctt tacagcatta ttaaaaagga tcctgagggt 120
gtttttcaca gtttctatct caaaacctgg aaagagtttc tccacattgt catagagggc 180
gtgcaggggt tcatcccgac agtgatgata tttaaccatt tccacggatg caactttgcc 240
atttggcttt 250

```

```

<210> 1265
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<400> 1265
aaatatttgt tccaaccttt ttctgttggtg gcatttatgg ctttggagca ctgtcaggcc 60
catgttcatt accgtgagct cctgtgcac tcctaatttc caaactagcc tggaaaacgc 120
ctccattgac catgattggt tcatggctct gtgcatggaa catcatatgt tcaggggagat 180
aaagaactct gatagtggca cctgggtaaa aagtacaatc cattatatct ggatatcaag 240
atcttttgca gttgaagaga ggtattgcca cagagaaaat tataggagca gaagaaagtc 300
aatgaaagtc aatgatgaca ctccattagg aaccagaaag atggtattta tttatacata 360
taataggtgt aagagattag aggaagcctg tcac 394

```

```

<210> 1266
<211> 229
<212> DNA
<213> Homo sapiens

```

```

<400> 1266
ccacagttgt atcatatago atctctaaca ttctatctag gattatctag tatagatctt 60
actatatttg gggctatggt gtatacaatg ttaacaagaa catatcttct ctgcatatat 120
gtgtgaatta taaagaaaag catgagaatg actctaagtt caacaaacat ggggtgaatct 180
ctatgtgctc ccagtgtcct ggatgggctc cccagcaagc cattcctcc 229

```

```

<210> 1267
<211> 722
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```



<222> 658

<223> n = A,T,C or G

<400> 1267

```

aaatcttata aactttccaa attttcatac taaaatatat tattgtatta atacaaacta 60
cagtattata cactacactg tgtaataaat aaagaaatat aaaaataaga cacataaata 120
taaaagtttt ctaaaactaa aagtacatat gtcagtaaga agggatttaa tactgccagg 180
tttgaagaca tacagtacaa aaatgttgca cagatctata aactaaaaga aataaaataa 240
tactgatagg taaaaatcag ctaatgttgt taataaattg ggtccataat aactaacatt 300
tggaacacag tatgagccaa ataacaatag catgtccatg tctgaaatgc aagtacatgg 360
ataaagcaga ttagaaaatt tccctttcgt ttctgtagag aaattctgaa aatcaatcaa 420
cataaaatca ataccgagga attgaaggat gaaatgtccc agtgtttcag tttctctgac 480
agagtcagtg gttttaagtt ttatttggga attttgatac aagagacaaa tcaacaaatg 540
ctagttattg taggccacac attggatgaa ggcgggttag agccttgaaa atactgagaa 600
atggcactta cagcacacag gtcttgctta agggcaaagg agatacaaag cttcatgnca 660
tattcttcat atggtaccac atattcaaac accatcccaa cactgatctg atgattttgc 720
tg                                                    722

```

<210> 1268

<211> 407

<212> DNA

<213> Homo sapiens

<400> 1268

```

gatgacacaa gcagctaata accatttctg ggtttctgcc taacccccta attgtctggt 60
aaagccaatt ctctgggtgt cccagtgagt ggtggctttt tttctttcca cattggcaca 120
ttcacttctc ccaactcttg catgtaagaa ataagcattt acataattgg aaaaatctgg 180
atttctgatg ccaaagggtt aaagcttctt ggatttcatt tcattgatat acagccacta 240
ttttattttt gatcagtggc ctttgggcca ctgttcaggg tactgaccat cagtgtcagc 300
attaggggtt tgggttttgt ttcttttggg tatttctttt ttggcacatg tgaatcttgt 360
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<210> 1269

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 613, 629, 643

<223> n = A,T,C or G

<400> 1269

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ttaatacaat gtcttacatt gataaaattc ttaaagagca aaactgcatt ttatttctgc 180
atccacattc caatcatatt agaactaaga tatttatcta tgaagatata aatgggtgcag 240
agagactttc atctgtggat tgcgttggtt cttagggttc ctagcactga tgcctgcaca 300
agcatgtgat atgtgaaata aaatggattc ttctatagct aaatgagttc cctctgggga 360
gagttctggt actgcaatca caatgccaga tgggtgtttat gggctatttg tgtaagtaag 420
tggttaagatg ctatgaagta agtgtgtttg ttttcattct atggaaactc ttgatgcatt 480
tgcttttgta tgggataaat tttgggtgca tatgatgtca ttcaactttg cattgaattg 540
aaattttggg tggattttata tgtattatac cctgtcacgc ttctagtgtc ttcaaccatt 600
tataccattt tgnacatatt tttacttgna aatatttacc tgncccggcc ggccgtcgaa 660

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agggcgaaat tcaac

675

<210> 1270

<211> 268

<212> DNA

<213> Homo sapiens

<400> 1270

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aagtcaatga gatgattatt ggtggtggaa tggcttttac cttccttaag gtgctcaaca 120
acatggagat tggcacttct ctgtttgatg aagagggagc caagattgtc aaagacctaa 180
tgtccaaagc tgagaagaat ggtgtgaaga ttaccttgcc tgttgacttt gtcactgctg 240
acaagtttga tgagaatgcc aagactgg                                     268
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<210> 1271

<211> 307

<212> DNA

<213> Homo sapiens

<400> 1271

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cctactcttc tccgtccatt gtactatctg cccgtggtgg ggatggcagt aggatcatat 60
ttgatgactt ccgagaagca tattattggc ttctgcataa tactccagag gatgcgaagg 120
tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaatttttag 180
tggacaataa cacatggaat aatacccata tttctcgagt agggcaggca atggcgcca 240
cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctggtcattt 300
ttggagg                                           307
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<210> 1272

<211> 798

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 613, 619, 703, 726, 773

<223> n = A,T,C or G

<400> 1272

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catttgata gcagctatgt ataaaatgga aaataaaaaa ttattctatt ttgcatgaat 120
agttcagact ttcccatacc acagccaagc agtaactaaa attagatct taattttcaa 180
tgataaaagg tctaaggttc atttaattat gtccttttaa cactgtcttt ctagattttt 240
caccocagat tttcaaaatt tgggaatgta aacaattgat atatttattg tatgttggct 300
agcagttcat ctttctgcaa aatatgcatt cagagaaatg tgaagcttgt tttaatgaag 360
acttaaacca tttgtgtcat ttgtgttttc atattcaaat acaccaaaatt aaaattctga 420
acctatattt ttcatcatta acttccaat ataccagaac atataccttt ttcatgtaaa 480
gttggcaatg ggatatggca gttttatttt tgaaaaatat gtaacatgac tttaatattt 540
ttatagtttt cagaattaga aacataggaa gggaaaatgt tttaataga taagtcaact 600
ttttatgggc tgnagtggng actataatag caaattataa agcattatta aatgggtata 660
ataattttaa tattacctca ttatgaatta actaaaataa agnggagtga tttttttaat 720
gggtgntcat actggagctc ctgagatata tgatttgcta ttgactcact ggntgattga 780
ataatatatt actcgagg                                     798
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<210> 1273

<211> 664  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 623  
 <223> n = A,T,C or G

<400> 1273  
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 caaaagttaa ccttttagcct ttgtgtaaaa taaatggtgc caacaatctt tataatgtag 180  
 caagctttcc ctgtttaata tccaaaaaat ggagggtggg gaggttgaag aaaaataaga 240  
 aaagttagca aataagatag tgaagagacc aatgcagaga aaagtttatg taatcaaatac 300  
 ttgctttgtc tccacattat cacattttta gtggataaat ttatgtaaac agaaaaagat 360  
 gtccacaaaa ccatactctat agatgtcatt tggaagcatc aagaaattga taagtatgtg 420  
 gtgaattaaa attactttta taatgttttg ctttcattaa tgtttgttat tgcaaaaatg 480  
 taagatttcc tacaattttg tcttcaaata ccaatctagc ccttcaaact tttatccagg 540  
 ttctccagaa tatttgaggat ctttggttat aaagcacaag gaaagctggc attcattatc 600  
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 ctgg 664

<210> 1274  
 <211> 153  
 <212> DNA  
 <213> Homo sapiens

<400> 1274  
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 actcattgta caggcgtgga gactcattgt atgtataaga atattctgac agtgagtgac 120  
 ccggagtctc tgggtgtacc tcttaccagt cag 153

<210> 1275  
 <211> 504  
 <212> DNA  
 <213> Homo sapiens

<400> 1275  
 aaaattctga taaaaattta ctcaattaca ttttatacat taatatttag tgaatttgtc 60  
 caaaaaggct atgtttaatt tatgtgtaaa aataacaaaa gatgtatcag tcagtctctg 120  
 ggcaataaga aaggaagaaa gccttgctag aaataataaa taatctcacg caaaaggcca 180  
 ggtgacataa gaatactaca ataatacaata tgttttcttt gtatttacaa taaaatccat 240  
 ctgttaacac tgtgatagaa aaaataatca gtccacatca tgtaataaaa acaggctttg 300  
 aggatgatta tacctcttat aataaaaaa tacaaggatt tctcacagct aaagtacttt 360  
 tcaactttga caactaatga cagtcattgg tgaaggtaaa actgacagag tacttttagat 420  
 cagctatgtc ctacagtcaa ggaatcaagg gcattaccca tttaccaagc agcaaaaagc 480  
 actttcattt ttccagaact attt 504

<210> 1276  
 <211> 533  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 1276

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gaagctgtta aacaagggtc agccacagtt ggtctgaaat caaaaactca tgcagttttg 120
gttgcatatga aaagggcgca atcagagctt gcagctcatc agaaaaaat tctccatgtt 180
gacaaccata ttggtatctc aattgcgggg cttactgctg atgctagact gttatgtaat 240
tttatgctgc aggagtgttt ggattccaga tttgtattcg atagaccact gcctgtgtct 300
cgtcttgtat ctctaattgg aagcaagacc cagataccaa cacaacgata tggccggaga 360
ccatatggtg ttggtctcct tattgctggt tatgatgata tgggcccctca cattttccaa 420
acctgtccat ctgctaacta ttttgactgc agagccatgt ccattggagc ccgttcccaa 480
tcagctcgta cttacttgga gagacatatg tctgaattta tggagtgtaa ttt 533

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&lt;210&gt; 1277

&lt;211&gt; 78

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1277

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ccacaggaag ttgcaaaaat tagatggact ctgtgtagct agccactctt gagtgtcagg 60
tctgcatatg tgagtttt 78

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&lt;210&gt; 1278

&lt;211&gt; 560

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1278

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aaatatctaa aacaatggcc cactgaagaa aggaacaatt aactctttaa ttaattcctt 60
aggataagta cccagaaatt taacagctag ggcagacttc taatacaata ccgaaagtcc 120
ttccaaaaac caagtgggtg ccaacttatg tcccttagca ttataacatt cttgagccaa 180
tagtgtaaaa atacgctgac aatttttag gcaaacatta ctcaaggat cttactttcc 240
acttattact aaagtaatta acccctaaat agatgctcct caacagtggg actacatcct 300
ggtaaaccta tcataagttg aaactatcaa gttgaaatgc atttagtacc cggataaacc 360
tatcataaag ttgaaaattt gtaaattgaa ccagtgtaaa tcagaggcca tcttacttca 420
tactcatgaa gcaactatag tgggatattt ttcaacttac gagatagcct aggcttggtg 480
aaacactgtc ctaattttact ggctctctgg taattaagtc ataaatggtc aaacatcaaa 540
ttctagaaaa gcataatattt 560

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&lt;210&gt; 1279

&lt;211&gt; 580

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1279

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aaaggagatt gtttcaaaat atttttgcaa attgagataa ggacagaaag attgagaaac 60
attgtatatt ttgcaaaaac aagatgtttg tagctgtttc agagagagta cggatatattt 120
atggtaattt tatccactag caaatcttga tttagtttga tagtggtgtg aattttattt 180
tgaaggataa gaccatggga aaattgtggt aaagactgtt tgtacccttc atgaaataat 240
tctgaagttg ccactagttt tactaatctt ctgtgaaatg catagatatg cgcattgttca 300
actttttatt gtggtcttat aattaaatgt aaaattgaaa attcatttgc tgtttcaaag 360
tgtgatatct ttcacaatag cctttttata gtcagtaatt cagaataatc aagttcatat 420
ggataaatgc atttttattt cctatttctt tagggagtgc tacaaatgtt tgtcacttaa 480
atttcaagtt tctgttttaa tagttaactg actatagatt gttttctatg ccatgtatgt 540
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<210> 1280  
 <211> 307  
 <212> DNA  
 <213> Homo sapiens

<400> 1280  
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 aatgcaggct caaataaatt actaggatac aagattactt caagcctctt ttctgtggaa 180  
 ctcataatat gataagcatt tgttacaaga ttgcctgtag ttgtttaggg gataaattat 240  
 attagggaaa gaaagtcttt ctttagttgg ttaaattttc tattataatt ggggtactaaa 300  
 tttattt 307

<210> 1281  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<400> 1281  
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 aggatgttaa tgagaaaact gactagattt cagatcacag attttaagag aacaaggatc 120  
 tcaaaaccaa ataccctctg cttaaagtgt tttttgtgtt tttcactact gaaaatgttt 180  
 agagattgac ttacctattg ctgatactca aaacatctga tatcttaata ttttt 235

<210> 1282  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 194  
 <223> n = A,T,C or G

<400> 1282  
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 agcacactgg cggccgttac tagtgatcc gagctcgta ccaagcttg cgtaatcatg 180  
 gtcatactg attnctgtga ggtaccagat tgccctgtagt tgttttagggg 230

<210> 1283  
 <211> 638  
 <212> DNA  
 <213> Homo sapiens

<400> 1283  
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 acatagtgtc gcgaactcaa atcggcattt agatagatcc agtggtttta acggcacggt 180  
 tttgcttata aaaaaagtgc aaaaaagatg tggtttacaa gttaaagcta cagaatccct 240  
 ttttgctgta attgcaccag ttttaaagcc tctggacaga gcagtatttc gtttaaaact 300  
 ttgttyttct taaaagctta cagtgtttgg ctaattctcc tcyccttttt acaagacggg 360  
 ggccggaggg tggacactgg tggcaggta agggatactg tcactttaag aagcctgcag 420  
 attgaagtgt aaacatggag aaattagggg ctgatttttt aaactgtgtg agatattaac 480

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cagccgccct gttataaaat caggaaatcc aaacagcgat ttacaccgat taacaccccc 540
tttatatatt ttttacaaaa atacactgag aaaataatca aacgttttca tctctottgt 600
ctttttttgt tttttaaaag tgtcaaaagt ctacattt 638

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<210> 1284
<211> 745
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 715
<223> n = A,T,C or G

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<400> 1284
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cacaagagaa gtttaatttct taacattgtg ttctatgatt atttgtaaga ccttcaccaa 180
gttctgatat cttttaaaga catagttaa aattgctttt gaaaatctgt attcttgaaa 240
atatacttgt tgtgtattag gtttttaaat accagctaaa ggattacctc actgagtcac 300
cagtaccctc ctattcagct cccaagatg atgtgttttt gcttacccta agagagggtt 360
tcttcttatt tttagataat tcaagtgcct agataaatta tgttttcttt aagtgtttat 420
ggtaaactct tttaaagaaa atttaatatg ttatagctga atcttttttg taactttaaa 480
tctttatcat agactctgta catatgttca aattagctgc ttgcctgatg tgtgtatcat 540
cgggtgggatg acagaacaaa catatttatg atcatgaata atgtgctttg taaaaagatt 600
tcaagttatt aggaagcata ctctgttttt taatcatgta taatattcca tgatactttt 660
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taaactttta aaaaaaaaaa aaaaa 745

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<210> 1285
<211> 190
<212> DNA
<213> Homo sapiens

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<400> 1285
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acttacggta aatggccgcc accgcggtgg agctccagct tttgttccct ttagtgaggg 180
ttaattgcgc 190

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<210> 1286
<211> 153
<212> DNA
<213> Homo sapiens

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<400> 1286
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tgaacgcttg ttagagtctg tcctcttttc ttccattctg tgggttggtc ttttactttc 120
taaattggtag aaccttcaaa gcacaaaggt ttt 153

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<210> 1287
<211> 232
<212> DNA
<213> Homo sapiens

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1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 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1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 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 tacagaaaaa aataattttg aaaaagtaat gmcaaacaga gatcaaacat ttagggcatt 180  
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<210> 1288  
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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 taagaggtga atgttaaaat actgtattac atgttgaata catttatctg aaaatgttat 180  
 aaaaaaacac acatgtaagc tctgatttca gggaagaaaa attcattttt gtaattttcc 240  
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 caatctattc tggatgaatg gcaactttga gctatcacc tgtttcagat ttagaacggg 420  
 acctgccaaag ttcagatagc caaaggaatt gtccaattct tactaccctt tataaaattc 480  
 agactcactt tctctgagtc agacttttct ccgtcatatt ttctaggaag ggcaaattcc 540  
 atcttttgtg aaatgggtca ttaggcttta tcatagggat gtttttcact gttgaaatca 600  
 gataaaagaa tcccaaataa atgatgctgc taaattacca aactgctaga gattaaaaaa 660  
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<210> 1290  
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 <212> DNA  
 <213> Homo sapiens

<400> 1290  
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 accatctatg aaccaatcag tataaaaaat ttctataaaa acaaaattta gacagtggct 120  
 caagaaaaca agctgccatt tatgcataga ttgatgtaca gtaacctaac caaatgtccc 180  
 ttttgaattt tcaagttact gaaaaaaaaat gtgtcgagaa acacattaag aaggcacatg 240  
 tacagtctac aatactcttc agtctcccta actcatgccc tgcccctata aaggaaatat 300  
 gttcacaatt ttacttgaga aaaaaaaca aaggcactta aaaaaaaaaa aa 352

<210> 1291  
 <211> 99  
 <212> DNA  
 <213> Homo sapiens

<400> 1291

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<210> 1292
<211> 295
<212> DNA
<213> Homo sapiens

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caagtgattt tatctgcatc aagtaagggt agtgaccacc acgaaagagg aatccccaga 120
cctcctaggc actaagaaat atttcaaagg ctatgcaa atagaacaaa aagctttcaa 180
tttagtctaa ttggtatcta tttttcatct atattaattt ggaaataagt tgctacctta 240
gaaaaattac atttttatcc attaaaataa aacaccagat aggttgagtt ttttt 295

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<210> 1293
<211> 256
<212> DNA
<213> Homo sapiens

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<400> 1293
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ataatcatac tccaaaggaa ctgggaatgg aggaagaaga tgtgattgaa gtttatcagg 180
aacaaacggg gggtcattca acagtttaga tgttcttttt attttttttc ttttccctca 240
atcctttttt attttt 256

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<210> 1294
<211> 90
<212> DNA
<213> Homo sapiens

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<400> 1294
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atttctactt atatatcata aataagacag 90

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<210> 1295
<211> 519
<212> DNA
<213> Homo sapiens

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ggtgctttgt gctaaggatg aagatacaat tcctcagctc ttggtagact tttgggaagc 120
tcagctagtg gcatgtctcc cagatgtggt acttcaggaa ctctttttca aactcacatc 180
acagtacatc tggagattgt ctaagaggca gcctcctgac accacaccat tgcgaacatc 240
ggaggatctt attctcctgg tcattccttg gtagatatatt ggaataaaat aatcacactg 300
actgtgattg ggtagatcac attccatatt ctctgtgag tctcagaaga tgcttcattt 360
tgtagaacgg tgtaagtggg ttccattcca gcatgaatgt ggtcggtcac atggcagtg 420
agtaaccaa ttccaggtgt tcttggaaac atttctaggg tttggtatgt tccaggga 480
atgtcaaaga catcagaact ataaactccc ctgtgcttg 519

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<210> 1296
<211> 419

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<212> DNA  
<213> Homo sapiens

<400> 1296  
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ccatgagaag tatgttcaact tgggtgacaac aaagagactc cgtatcatat gtatgttaat 120  
gaccagattg ttcatatggg atttttctta acagattatc aggttgagaa tgattctttt 180  
tctccaaggg caagaaaaag ctggctaaat gctagttaat taaatccatt ctcaattttg 240  
aactgtagag aagaacctga cttgaatgag attttctaaa ggaagacatt tcttgctcaa 300  
cctcaggtat aattagatta taaggaatct cacgtccaga attttatctg ctgattgtta 360  
gtatggtagg taattggcct taggacacta tttctactag aaccctttac attattttt 419

<210> 1297  
<211> 199  
<212> DNA  
<213> Homo sapiens

<400> 1297  
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ttttggcttg gaagtttctt ctggtgtctt tgctgaatcc ttcgctttac ctccattctt 120  
aggtgctttg gagctggaag cagccttctt gcacttatcc tttgctgtgt tctgtgaggt 180  
ttctgtagtg gagggacag 199

<210> 1298  
<211> 484  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 437, 456, 467  
<223> n = A,T,C or G

<400> 1298  
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attcataaca atgctatttt ccaaagggtt caattagatt tcctcagaag catacctgaa 120  
ctgttaatca ttacaactcc tttgtgaaac atgggactgg ttgattaccc agtgtaatca 180  
ctggctgaaa cctcagcaca ctgtttttca cccagtgga ggcaggtttt cacctcccct 240  
ctagctgtac ccctctctta atgcccata tagagaactg tgatcttctt tctccactag 300  
aaatgttcac tttcatcagg taagggataa aacaaaaaca agagacagaa gatcttaaaa 360  
aaaaaaatag taatagggca agtaaaactca gtgaggttag aggaatttgt ttggggggca 420  
ttctatgttg ttagytncat atcatgttca gtttgntggt tctaganccc tctgaaatgc 480  
atta 484

<210> 1299  
<211> 419  
<212> DNA  
<213> Homo sapiens

<400> 1299  
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aatttgttta atccagtgtc aattgtctaa tgggtctaaag tgtccatttg aagttataat 120  
ctggatgaac tgaacaataa gagaagtttt cttcattagc ccaattgttt atcaactcaat 180  
tcctactcct gcccatgggt tcttccacct tcctctggag aacataaaga gattctagat 240

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ctctgtataa ggtggtttgc tttagcttga aatcatcagt gaggattata catgggcaat 300
gtccagaaat cacattattg ctcatagacc gtgtagtctt gatctaacgg ataaactgtac 360
attgtcttca ctaagaagct aggggtggttgc tccttgatat tgggacattg tagacttgg 419

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<210> 1300
<211> 182
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 3, 5
<223> n = A,T,C or G

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<400> 1300
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agaagcatta atattattaa agtgaagaaa ctgcagagaa aattacagaa caaaactgta 180
gg                                                    182

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<210> 1301
<211> 312
<212> DNA
<213> Homo sapiens

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<400> 1301
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cagtcaccca cagtcacaaa atatgaaata taaaactcca gaagtaaaca gtttataaat 180
tttaagtcac actttgttct gaggaatgtg atgcaacctc ccgccattct gctgtatcca 240
gttcaggatg tgacataccc ctttgctcag cagatacaca attcctgctt cctgctcatt 300
agacatttgc ag                                                    312

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<210> 1302
<211> 109
<212> DNA
<213> Homo sapiens

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<400> 1302
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tctgaaatgt acatgtatac atgtacctac tgagtgtat gtgattttt 109

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<210> 1303
<211> 330
<212> DNA
<213> Homo sapiens

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<400> 1303
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gcctctcagc cagcccggtg gtataatatg aagaccaaat gatagaactg tactgttttc 180
tgggccagtg agccagaaat tgattaaggc tttctttggt aggtaaatct agagtttata 240
cagtgtacat gtacatagta aagtattttt gattaacaat gtattttaat aacatatcta 300
aagtcatcat gaactggctt gtacattttt 330

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<210> 1304  
 <211> 170  
 <212> DNA  
 <213> Homo sapiens

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 tatccttgat cataatagtt attaaatcct tggttccagt tttggccctg 170

<210> 1305  
 <211> 468  
 <212> DNA  
 <213> Homo sapiens

<400> 1305  
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 tcaaggatca gaaaactgga ggtagccat ctccattatt tccttttgca cattgggtac 120  
 agtgggtggc attagtatgc actagctgca aagtcacagc accttatgga aataagtatg 180  
 tttattataa taataaaaaag ttaagctgca tctctgtaga ttatttactt tgcagactgt 240  
 aaagctgccc tatcttttcc agcagaattt actcttccat tcttaattct tttttgaaat 300  
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 ggatttttatt ttttcccaaa agggttccat ctttgctatc tgttgatcag ccttagaaaa 420  
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<210> 1306  
 <211> 326  
 <212> DNA  
 <213> Homo sapiens

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 atgattgcca gtaatgcaag aaacactcct tgagagggag gggaaaagac tttcttaaat 180  
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 agytgtttcc agtcttttca gatggatgcc tactgtggag attaactttg gcattattca 300  
 gtgtcagctt tctttagctg gaattg 326

<210> 1307  
 <211> 614  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 294, 442, 458, 465, 580, 592, 609  
 <223> n = A,T,C or G

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 tgctagtatc agaggggag tagagcttgg acagaaagaa aagaaacttg gtgttaggta 180  
 attgactatg cactagtact tcagactttt taattttata tatatatata ttttttttcc 240

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ttctgcaata catttgaaaa cttgtttggg agactctgca ttttttattg cggntttttt 300
gttattgttg gtttatacaa gcatgcgttg cacttctttt ttgggagatg cgygtytgyt 360
gatgttctat gttttgtttt gagtgtaggc tgactgtttt ataatttggg gagttctgca 420
tttgatccgc atccccctgtg gnttctaaag gggatgggcc tcagnaactg ttgcatggat 480
cctgtgtttg caactgggga ggacagaaac tgggggtgat agccagtcct gccttaagaa 540
catttgatgc aaagaatggg accctgcccc ggggccgggn cccctccgaa anggggggga 600
aaatcccang cacc 614

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<210> 1308
<211> 304
<212> DNA
<213> Homo sapiens

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<400> 1308
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ttgtgatgtc atacagagaa gtcacaggca gtacctgagg gtctgtagggt tgcacacttt 180
ggtaaccagat aacttttttt ttctttataa gaaagcctga gtactccaca ctgcacaata 240
actcctccca ggggttttaac tttgttttat tttcaaaacc aggtccaatg agctttctga 300
gcag 304

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<210> 1309
<211> 289
<212> DNA
<213> Homo sapiens

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<400> 1309
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caaaaagagc cttctttctc tgtaaatctt aaatgcctac atcactcttt atgatacatg 120
gatcatctta tgtggatact taaatttttc atgtctgctt cttttgcctc tcccaactat 180
actatgagga aattcggaac aaagacattt ttgtaatat tcttatctcc ttcacaccta 240
gtatagagct gatttttacia aggcatttaa gagatatttg aattgattt 289

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<210> 1310
<211> 534
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 480, 490
<223> n = A,T,C or G

```

```

<400> 1310
tgctttgcac tttctgatgt attacatgac tgtttctttt gtaaagagaa tcaactaggt 60
atttaagact gataatttta caatttatat gcttcacata gcatgtcaac ttttgactaa 120
gaattttgtt ttaacttttt aacatgtgtt aaacagagaa aggggccatg aaggaaagtg 180
tatgagttgc atttgtaaaa atgagacttt ttcagtggaa ctctaaacct tgtgatgact 240
actaacaaat gtaaaattat gagtgattaa gaaaacattg ctttgtgggt atcactttta 300
gytttgacac ctagattata gtcttagtaa tagcatccac tggaaaaggt gaaaatgttt 360
tattcagcat ttaacttaca tttgtacttt agagtatttt tgtataaaat ccatagattt 420
attttacatt tagagtattt acactattga taaagtttgt aaataatttt ctaagacagn 480
ttttatatan gctacagggg gccctgattt tcttattgaa tttgggttaga ctag 534

```

<210> 1311  
 <211> 114  
 <212> DNA  
 <213> Homo sapiens

<400> 1311  
 aaaatttgta ggagttgtag actacctaaa tttttaagtt atggyatttg gtcataaggtt 60  
 gactgggtag gtaaagaagg aaacagacaa gaaaatggct tcttgagggtg gcag 114

<210> 1312  
 <211> 95  
 <212> DNA  
 <213> Homo sapiens

<400> 1312  
 gggcgggtaa aggtaggccg cgagagcgag gttagggagag gataggaggc cgcagtactg 60  
 ctcacacgct ccgctcttct cccactctcg actct 95

<210> 1313  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<400> 1313  
 aaatgataca gtatttttagg tatgatttaa gactatgatt tacctataca ttatatatat 60  
 ttataaaaga tactaaacca gcataaccctt actctgccag agtagtgaag ctaattaaac 120  
 acgtttgggt tctgaataaa ttgaactaaa tccaaactat ttcctaaaat cacaggacat 180  
 taaggaccaa tagcatctgt gccagagatg tactgttatt agctgggaag accaattcta 240  
 acagcaaata acagtctgag actcctcata cctcagtggg tagaagcatg tctctcttga 300  
 gctacagttag aggggaaggg attgttgtgt agtcaagtca ccatgctgaa tgtacactga 360  
 ttcttttatg atgactgctt aactccccac tgctgtccc agagaggctt tccaatgtag 420  
 ctcagtaatt cctgttactt tacagacagg aaagtccag aaactttaag aacaaactct 480  
 gaaagacctt tgagcaaatg ggctgaatac ttttttttt 519

<210> 1314  
 <211> 518  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 247, 270, 329, 357, 419, 440, 498  
 <223> n = A,T,C or G

<400> 1314  
 ccatgggtggg tgaagacgct gatctgccct gtcacctggg gtttttttatg agtgcagaga 60  
 ccagggaagt gaggaaaccc gagytcacg ctaaggcagg tggatgaactg gtatgcagat 120  
 ggaaaggaag tggaaagacg gcagagtgcg ccgtatcgag ggagaacttc gattctgcgg 180  
 gatggcatca ctgcagggaa ggctgctctc cgaatacaca acgtcacagc ctctgacagt 240  
 ggaaagnact tgtgttattt ccaagatggn gacttctacg aaaaagccct ggtggagctg 300  
 aaggttgtag gtgagcctcc aggttttgnt ctgagaacac ttctctgtag gatctanagc 360  
 agatgcagag tccctcttcc aaaagtactg cagacactcc tggctgctca ctagcaatng 420  
 tctgcactgc ctcccaactn agcttctctg caacccttaa gaaagacaca ttctttcttt 480  
 agaaagaatt cctgctgnac cttacatgcc gaagtaaa 518

<210> 1315  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<400> 1315  
 tctgtgcac caatttatta tagwtttgta agtaacaata tgtaatcaaa cttctaggtg 60  
 acttgagagt ggaacctcct atatcattat ttagcacctg ttgtgacagt aaccatttca 120  
 gtgtattgtt tattatacca cttatatcaa cttatttttc accagkataa watcttratt 180  
 tytacgacct atcattctga atcaagmaca ctgtatgttc agtaggttga actatgaaca 240  
 ctgtcatcaa tggttcagttc aaaagcctga aagtttagat ctagaagctg gtaaaaatga 300  
 caatatcaat cacattaggg gaaccattgt tgtcttcact taatccattt agcactattt 360

<210> 1316  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<400> 1316  
 aaaaaacacg tttgttatta ccaaawagag acggctttag gtaaaaataa taaaaaccct 60  
 ttgcttgyat tacytatgca ratagttsta tttatctggw cwacgggyta aaggyacagy 120  
 actataggwc tctggcttga gtmtttacgt tcatttctta ttgctggaat ktcataattt 180  
 ttcttgttgg atgactaaac cggatgatgg tagagatggg aagccggcat ttactcagcc 240  
 ccgccttgc cagcctcggg agcggacgaa ttctcag 277

<210> 1317  
 <211> 716  
 <212> DNA  
 <213> Homo sapiens

<400> 1317  
 aaaatgttct cttgagacta gtaggcatag aagaaagcag aaggaaaata aatagaaaga 60  
 aggtcttcta cttcatggc tattcaggct caggagggtg gagagaaaaa gaaggaggac 120  
 aaatgaacaa gacagatgag ggagacatcc tctctgatat aagatacagt cctctctggg 180  
 ggatggagtc caatttgtgt aacttcctat gtattttcct agataggacc accactattt 240  
 gagaaaatat ctactggta acctaaagcc aaggataata aaccttgata tacttaacat 300  
 tcaatttctt tccagcaatg tgataaataa atctatcttg tgtttctctt gcagattgta 360  
 aaagcattag aacattttaca tagtaagctg tctgtcattc acagaggtaa gcattcatga 420  
 gctgccttgg ctgttccttt gataaagttc atctctttca cctggagtcg gtctctaccc 480  
 ccagtcctcc atgggtggaa gtagaattga ctcaggcaag agaactaagg ggctttcctt 540  
 tgagattgga tagcaaacca tataagtagt attccttata atggctgagg acataagaag 600  
 aagacgtgat ctttgtctta catccaaatt gaataataaac acttggttagc aagcagagct 660  
 atgagatcat atcattgaga attttagaga atatgataaa aattgatctt gtctgg 716

<210> 1318  
 <211> 515  
 <212> DNA  
 <213> Homo sapiens

<400> 1318  
 aaagctgtat catgttgagt aaacctgacc tgagccagcg gtttaaggcg attttgctcg 60  
 atgaaggatca agacgtgaac ccggtcattg ccgacttggg aaggatacag cgcattctgca 120

```

aagtaaccgt cggcgaccct caccagcaga tttaccgttt ccgtgggtgcc gaagacgctc 180
tcaacagcga ttggatggcc gatgcagagc gtcactacct gacccagagc tttcgcttcg 240
gtccagcagt cgcgcagtgt gctaacatca tactttttta caagggtgaa actcgaaagc 300
tgcaaggggt aggcccaaaa acccagggtta aacgtgcgct tcctgaagac ctaccgcata 360
gcacatacat ccatcgcacg gttaccggcg tcatagagaa cgcgcttagc ttggtagcga 420
gcaatccaaa gatctattgg gtaggtggca tcgacagtta ttcattgcgc gacctggaag 480
acttgtatct gttcagccgc aacccaaaacc aagcc 515

```

```

<210> 1319
<211> 141
<212> DNA
<213> Homo sapiens

```

```

<400> 1319
aaatttagtg tctcatttgg aaataaaactc tgggcctatt agttgttgag tatttttttt 60
ttttactacc taaaaaaaga tttgttaaga gctgaattac aacttagcat tacataatat 120
aaaacactgt aatgtgtatt t 141

```

```

<210> 1320
<211> 497
<212> DNA
<213> Homo sapiens

```

```

<400> 1320
aaattcagtc ctaagaaaga ggagtgcctg tcccctaagg gtgtttaatg gcaaggcagc 60
cctgtctgaa ggacacttec tgccctaagg agagtggat ttgcagacta gaattctagt 120
gctgctgaag atgaatcaat gggaaatact actcctgtaa ttccctacct cctgcaacca 180
actacaacca agctctctgc atctactccc aagtatgggg ttcaagagag taatggggtt 240
catattttct atcaccacag taagttccta ctaggcaaaa tgagagggca gtgtttcctt 300
tttggtaact attactgcta agtatttccc agcacatgaa accttatttt ttcccaaagc 360
cagaaccaga tgagtaaagg agtaagaacc ttgcctgaac atccttcctt cccaccatac 420
gctgtgtgtt agttcccaac atcgaatgtg tacaacttaa gttgggtcct tacactcagg 480
ctttcactat ttccctt 497

```

```

<210> 1321
<211> 344
<212> DNA
<213> Homo sapiens

```

```

<400> 1321
ctgtccaatg acaacaggac ctcactctca ctcagtgtca caaggaatga tgtaggaccc 60
tatgagtgtg gaatccagaa cgaattaagt gttgaccaca ggcacccagt catcctgaat 120
gtcctctatg gccagacga ccccaccatt tccccctcat acacctatta ccgtccaggg 180
gtgaacctca gcctctcctg ccatgcagcc tctaaccacac ctgcacagta ttcttggtg 240
attgatggga acatccagca acacacacaa gagctcttta tctccaacat cactgagaag 300
aacagcggac tctatactg ccaggccaat aactcagcca gtgg 344

```

```

<210> 1322
<211> 110
<212> DNA
<213> Homo sapiens

```

```

<400> 1322
ccaccacata gccagccagg aatcccttga ggaacgggga ggacaacagc gagccaccct 60

```

ggcccactcc actgttgact tcgtcttcta cacgccgctg caggctttcc 110

<210> 1323  
<211> 359  
<212> DNA  
<213> Homo sapiens

<400> 1323  
ccacgtgct ggcttgggct ggctgtcct gctgtgagct ggctgaggag gaattcctgg 60  
cggtctcccc cttagatccg cgctatcgtg aggtccacta tgccttctg gatccttct 120  
gcagtggctc ggggtgagatg gtgagaaggc gtggctgagg gactcagagg tccacagcag 180  
cttagacctg gattcatctg ttttggctct agttctgaca ctttaaatggg cttgggacct 240  
tggagcaaaa gttctcctct gtgaagcgag gatttcagga gcgaggattt caggactgag 300  
gcagcctgtg aagctgtgta accgagacac gcttttcctt aggtatgccg agcagacag 359

<210> 1324  
<211> 258  
<212> DNA  
<213> Homo sapiens

<400> 1324  
caatcacaca accacaaaa agatactgtg tgctctcact ttccaaaatt ctgcctgggc 60  
tmctcctgag gaaagyagtg atatggtagc tgggtgtgat cccctaaagg aattataaga 120  
tggartgyga rgaacattat cttagactat aakactgkct gcatrcrgat atgktstcra 180  
agattattcc tgctgcraat aaagakmttg skaaagagca rtatasagct atcacagtct 240  
attgacccam asatgttt 258

<210> 1325  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 1325  
ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cacagcaagc 60  
taciaaatgtg aaaccagaa cccagtgtg ggcaggcgca gtgattcagt catcctgaat 120  
gtcctctatg gcccgatgc cccaccatt tcccctctaa acacatctta cagatcaggg 180  
gaaaatctga acctctcctg ccacgcagcc tctaaccac ctgcacagta ctcttggttt 240  
gtcaatggga ctttcagca atccaccaa gagctcttta tccccacat cactgtgaat 300  
aatagtggat cctatacgtg ccaagcccat aactcagaca ctggcctcaa taggaccaca 360  
gtcacgacga tcacagtcta tgacagacca cccaaacct tcatcaccag caacaactcc 420  
aaccctgtg aggatgagga tgctgtagcc ttaacctgtg aaactgagat tcagaacaca 480  
acctacctgt ggtgggtaaa taatcagagc ctcccgggtc gtcccaggt gcag 534

<210> 1326  
<211> 177  
<212> DNA  
<213> Homo sapiens

<400> 1326  
ctgcattatg tgtgtttaga acgagaagtt gtttgtacag tttttttcta ttgaccgctt 60  
ccgtcttgcc tgaaacctgg gcattctttc caatagacag aaaatcagag agtcaaactc 120  
gatgcgcaat gagttgttct gagaccagta atccacggtg ctgcaatttg ggttttt 177

<210> 1327



<211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 1327  
 aaacttggtt tatctaatac tgagcactgt ttttttgtca agtatttttt taagaccaca 60  
 taattctttt tgtctgctca aggaaaggat agataaataa ttggcacaca tttgtttctc 120  
 actgaatttt acagtagtaa attaatgtta taatgtacca catggagatg agttggtaag 180  
 aaatcatcta gttccagagc ccagggatta taaacagtag gtgaaataga tttatgactt 240  
 acgaaatatg ttgtgacaat atattt 266

<210> 1328  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<400> 1328  
 ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cgcaagagcc 60  
 tatgtatgtg gaatccagaa ctcagtgagt gcaaaccgca gtgaccaggt caccctggat 120  
 gtcctctatg ggccggacac ccccatcatt tccccccag actcgtctta cctttcggga 180  
 gcgaacctca acctctcctg ccactcggcc tctaaccat ccccgagta ttcttggcgt 240  
 atcaatggga taccgcagca acacacacaa gttctcttta tcgccaaaat caccgcaa 300  
 aataacggga cctatgcctg ttttgtctct aacttggtta ctggccgcaa taatccata 360  
 gtcaagagca tcacagtctc tgcactctga acttctcctg gtctctcag 409

<210> 1329  
 <211> 136  
 <212> DNA  
 <213> Homo sapiens

<400> 1329  
 ccattttcgc acagtcacc ataaaattga aaagattgac cagagacaga tcatggaggg 60  
 cttggcaatc tgtactgatg aagccatgga ccagaagaga agtgagtcaa tgaagagagt 120  
 ttctcttttc acatgg 136

<210> 1330  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 1330  
 ctgctaacag ccctaacggt gcaacacaag taaaaactca ggaacctctt cgactgccac 60  
 gcccttcacc aacagaagga agacagtggc gccaccacaa gtggcagggc acaggggctt 120  
 ctgtgacaac aatatgtcct tctagtatac attcattgca aagggtgcc c tgaagtctcg 180  
 tttttgaaa taactgttat catacatttt gtatgatgtt gcttgtgggc accatgaaga 240  
 gagcctggct gtaaaggaca gagggagcta aaccaacaat gcatggccct gcgtgcccac 300  
 aagagggagc c 311

<210> 1331  
 <211> 613  
 <212> DNA  
 <213> Homo sapiens

<400> 1331

```

ctggggccakg agctgtgccc ggtgcctgca gccttcataa gcacacacgt ccattcccta 60
ctaaggccca gacctcctgg tatctgcccc gggctccctc atcccacctc catccggagt 120
tgcccaagat gcatgtccag cataggcagg attgctcggg ggtgagaagg ttaggtccgg 180
ctcagactga ataagaagag ataaaatttg ccttaaaact tacctggcag tggctttgct 240
gcacggtctg aaaccacctg ttcccaccct cttgaccgaa atttccttgt gacacagaga 300
agggcaaagg tctgagccca gagttgacgg agggagtatt tcagggttca cttcaggggc 360
tcccaaagcg acaagatcgt tagggagaga ggcccagggt ggggactggg aatttaagga 420
gagctgggaa cggatccctt aggttcagga agcttctgtg caagctgcga ggatggcttg 480
ggccgaaggg ttgctctgcc cgccgcgcta gctgtgagct gagcaaagcc ctgggctcac 540
agcaccceaa aagcctgtgg cttcagtcct gcgtctgcac cacacaatca aaaggatcgt 600
tttgttttgt ttt

```

613

```

<210> 1332
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10
<223> n = A,T,C or G

```

```

<400> 1332
ctgagttaan atggtaaagc caatattatt ttaggaggaa agaggacgaa ggccaatgaa 60
ccaacatctg cctgctatct ggtgcatcac ccaagggtgac caatggctgg gcacaaataa 120
acttctcttt tgctagccac agagttgctc actgtggcaa gcctgagctg gtcagaacac 180
ctgtgtgtgt gtctctgata cactaacc acaataagca agtctgcaca catctctatg 240
agcccatgac aaagacaaga cattcccaaa gatcagtcac tagagtgcaa caacgaaatt 300
caagatttga ccaaaacaga ccctgctgcc tcctaaattg ccaattgct ctcaaaaact 360
tacagaaaaa gggacattat aagaattcat agaggagag aagaaaaagc tgctactcct 420
agtcattagt acaatgtgct gtgttaatta gatacctcta tataaattag aaaaagtgtc 480
ttacttgcac gcttcaataa aatgaatact gagtgtcgta gtgttagatc tgtacagata 540
taaatttttt gcagctatat aaaagtgtat aagatgggct tttgcatttt a

```

591

```

<210> 1333
<211> 379
<212> DNA
<213> Homo sapiens

```

```

<400> 1333
ctggtacaaa ggcgaaagag tggatggcaa cagtctaatt gtaggatatg taataggaac 60
tcaacaagct accccagggc ccgcatgcag tggctcgagag acaatatacc ccaatgcac 120
cctgctgac cagaacgtca ccagaaatga cacaggatcc tataccctac aagtcataaa 180
gtcagatctt gtgaatgaag aagcaaccgg acagttccat gtatacccg agctgcccaa 240
gccctccatc tccagcaaca actccaaccc cgtggaggac aaggatgctg tggccttcac 300
ctgtgaacct gaggtcaga acacaaccta cctgtgggtg gtaaattggc agagcctccc 360
agtcagtcac aggtgcag

```

379

```

<210> 1334
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1334

```

```

aaaccatttg tacaaaaactt ctataaaattt ttctctctct ttctctcttta tgtacaaaaa 60
tatcttaata tatccccgaa ctggttagga tagatacaaa tagatttttt ataataaaaa 120
attcacaaaa gattggaagc attctataat gaaaatggta gaaaagacag tgtgagggaa 180
gccatggggg ttgggaatcg ggccttgag gagaagcaga gtttcaaagg gctgagaata 240
gcatagtttc actgtaaacc aatgtctaca gcttattggg gtgggggcta ctgagacgaa 300
agacaccaac tcgtttctag agggctaaga actgcacttt aagaaagggc ggggaggtga 360
agggacccga gcaagaactt tcag                                     384

```

<210> 1335  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1335
aaattagttg ctataaatct atcaatactt tttttcccta ttatatTTTT ggttctatta 60
ggatttactt aactgaatct tataacaatt cgaggtgaac tgtggcaatg aaaaccagaa 120
acagttaatg agatgcttca gctcacagtt tgaagtgtcg agaacctag tatTTTgtcg 180
tacggtactg agctgtacca aaatatgatg gtttaggttt atgtgcaaga ctttTgtgtg 240
tagtctagac aaaggggttg gcaagagaca tgcaaaagctg aagccctgct tgaaaagacc 300
cttcaaggaa gtaaaatggc aggggcagag tgcagcttaa catgttgcta tccctgttgt 360
ttttgagttg gttttggaat ggattcaagt tcttacacaa tttattttga atacaagcat 420
aatctaggtg atttgagtta atgaacttct tttcatgatg tagggaaagc tgaatgtata 480
tatttctaag aagaatttgt ttagcagatt acaagttggc aaaatagact gttcacagaa 540
actaggcaaa aattt                                     555

```

<210> 1336  
 <211> 505  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1336
cctggaaaga agcccagcaa aaggttccag atgaagaaga aatgaagag agtgacaacg 60
aaaaggaaac tgaaaagagt gactccgtaa cagattctgg accaaccttc aactatcttc 120
ttgatatgcc cttttggtat ttaaccaagg aaaagaaaga tgaactctgc aggctaagaa 180
atgaaaaaga acaagagctg gacacattaa aaagaaagag tccatcagat ttgtggaaag 240
aagacttggc tacatttatt gaagaattgg aggctgttga agccaaggaa aaacaagatg 300
aacaagtcgg acttcttggg aaagggggga aggccaaagg gaaaaaaca caaatggctg 360
aagttttgcc ttctccgcgt ggtcaaagag tcattccacg aataaccata gaaatgaaag 420
cagaggcaga aargaaaaat aaaaagaaaa ttaagaatga aaatactgaa ggaagccctc 480
aagaagatgg tgtggaacta gaagg                                     505

```

<210> 1337  
 <211> 385  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1337
ctggtgctag tcagagctaa tgacagaatt tcagtttaat aaaaagaccc ccaactgagc 60
acaccatctt gaaaaaagta tacttatcaa acagctttca atcagttcaa gagagacacc 120
ttaattgggg agaggaagaa ttgcagagta gtttgtaatc atgccaatc cagatcaata 180
actgcatgtc tgttcttttg tagaaatagc ttttgcttta tattaagtaa tcacatatat 240
attctctcta tttggataag gaaaccttcg ctttatttga caatgtataa tgatatactc 300
ttctaattca cctctgtgtc ttcacaataa acatgagtaa aatttagaca agtgatggta 360
aaggtcaata taattattta ttttt                                     385

```

<210> 1338  
 <211> 350  
 <212> DNA  
 <213> Homo sapiens

<400> 1338  
 aaaggtgata ttacacaaaa cctcgtcttt tgttcaactt tggatccatt ggcaattcaa 60  
 tggcctcaat ctccccaac tcgccaaagt actccctgat cttttcctca gtggcttcag 120  
 gattcagacc cccaacgaag attttcttca cggggtcctt cttcatagcc atggcctttt 180  
 tagggtcaat gacacggcca tccagcctgt gtccttctg gtctaggacc ttctccacac 240  
 tggctgcac tttgaacagg ataaacccaa accctcttga ccgtccagtg ttgggatcca 300  
 tttttattgt acagtcaacg acctctccaa atttagtaaa atagtctttt 350

<210> 1339  
 <211> 443  
 <212> DNA  
 <213> Homo sapiens

<400> 1339  
 ctgctcctct agtaataagt tectggggat aatacattaa ccaacattgg ttgaaacata 60  
 cctgagtaat catatcagga tgcattgttaa gctgataaaa caataagatc ccaaaatgca 120  
 gtagctcaaa aaaagtagaa gttaatttat ctctggggg acagctctgg ttctcaaat 180  
 ttacaggctc agaatcacct gcagggttg tgaaagtaca gattgctgcg ctccgcccc 240  
 agagtttctg atttagtagg tgtaggctg aaccaagaat ttgcctttct aacaagctcc 300  
 caagtgatgc tgatgacttg taggaatgga tttacttcta ggattagact tcagctcact 360  
 ctgtttgctg aactctttct aatatttctt aagttggtag actcyctgct ccaggttctc 420  
 aacgtgaagg aaggaacccc cag 443

<210> 1340  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<400> 1340  
 cctcaggaac aggtaggggc agcagaatag aatagcatcc atttcccaga gaaagactgc 60  
 ctttacatkt cccatgcttt tagcacaaag cagcgtctgg gccactgtta ccagaggtga 120  
 gtttatacat ttacaaaatg cttaaaatct ttgggaagca agaggaagct aaacagaagg 180  
 tcccatgtta actgaaggca aattcactca acctctctag taagggaccc atgggcctac 240  
 agagtgttcc ctctacaatg tgcagagtgg aaa 273

<210> 1341  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<400> 1341  
 ccatgggccc ggtcacgaac aaaacgggccc tggacgcctc gcccttgccc gcagatacct 60  
 cctactacca gggggtgtac tcccggccca ttatgaactc ctcttaagaa gacgacggct 120  
 tcaggccccg ctaactctgg caccocggat cgaggacaag tgagagagca agtgggggtc 180  
 gagacttttg ggagacggtg ttgcagagac gcaagggaga agaaatccat aacaccccca 240  
 ccccaacacc gccaaagacag cagtcttctt caccgctgc agccgttccg tcccaaacag 300  
 agggccacac agatacccca cgttctatat aaggaggaaa acgggaaaga atataaagtt 360  
 aaaaaaaagc ctccggtttc cactactgtg tagactcctg cttcttcaag cacctgcaga 420

```
<210> 1342
<211> 159
<212> DNA
<213> Homo sapiens
```

```
<210> 1343
<211> 76
<212> DNA
<213> Homo sapiens
```

```
<210> 1344
<211> 726
<212> DNA
<213> Homo sapiens
```

```
<210> 1345
<211> 742
<212> DNA
<213> Homo sapiens
```

<400> 1345						
ccagagagcc	ctgtcctgtg	aggggtgggta	tcacagtggc	aggggttcaat	tcagaagacc	60
ttgagggcag	gctgatgttt	cctgaatggg	cccctggttg	ttgctgtgoc	ctgactctcc	120
atttccccc	ctgagatggat	ttggacctaa	tagggcactg	gagctggttc	gaatcctgac	180
tggactactt	ggcaacttta	tgtctgggag	caagttactt	aacctcccca	agcctgtgtc	240
ttgaaatgc	gggtaaatga	atgtagatgt	ttggcagcaq	ctactccttg	ttgaqctctc	300

```

acagtgaact ctctgecte tgccctcctt cccgcctcc cctgggtgct agcgtcaggt 360
ctagccactt cctcctgggc cctctccctt tttctgtggc tggtgctg cccgcctggc 420
gctggacett tcatgtaacg ggaatcagca tgtatattct ggtctggtct gtttctacac 480
ttaattttgt ttccagtagt atttccctgt accggcagag ttcacaaaca catttgaaga 540
ggctttttct caggattctt aaccttccaa aggaagtccc atggatgggt ttctagaagt 600
ctataaatgc tctgaaattg tatttttctg tggaaaagca taacttttat ctgcttggtc 660
gtgctcaaaa aaagatcatg aatggaatga attgcattga attttatgcc attgggggct 720
taataactaaa aggatatgga ag                                     742

```

```

<210> 1346
<211> 573
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 498, 543
<223> n = A,T,C or G

```

```

<400> 1346
aaatgcattk ttaacttaca gtattttcaa cttacgatgt gtttatcasg aagtaacccc 60
atcataagca gaggagcatc tgtattgcgt aatttgactg gcacagttaa ttaggttctg 120
ttcagtgwtt tccgtcaaca agatgtttat tgtgtgagta aacaaggtta gccctgtgac 180
aagctgaata agaatagtct ctctcagca gcttatagta aacaagggtta gtaatcetta 240
cattagtggc tagactatca aacgaaatat ataacatgta agaacactaa agacagaatt 300
actgtggcat agagatagtt agaattgctt cagcctaaga gatgaattag gtaatgcaag 360
gaggtgaata tggtggcctg caatatgaac aaggcagaga gctgggagag taagatgtaa 420
gttgctaagg agggatgtgt cttgagtttg gaaaccataa agggaaatca taggtaatgc 480
tagagtcact gatcttangg agccttgaat aacggtgatg actaagggaa tctttatttt 540
ggnngggacta ttggaattaa attggccaga att                                     573

```

```

<210> 1347
<211> 333
<212> DNA
<213> Homo sapiens

```

```

<400> 1347
cctggttttct ggtggcctct atgaatccca tgtagggtgc agaccgtact ccatccctcc 60
ctgtgagcac cacgtcaacg gctcccggcc cccatgcacg ggggaggag ataccccca 120
gtgtagcaag atctgtgagc ctggctacag cccgacctac aaacaggaca agcactacgg 180
atacaattcc tacagcgtct ccaatagcga gaaggacatc atggccgaga totacaaaaa 240
cgcccccggtg gagggagctt tctctgtgta ttcggacttc ctgctctaca agtcaggagt 300
gtaccaaacac gtcaccggag agatgatggg tgg                                     333

```

```

<210> 1348
<211> 185
<212> DNA
<213> Homo sapiens

```

```

<400> 1348
aaaaagctt gcagcaagaa aatgccagtg tgcaactggg tgactaaaga ccaaagaaaa 60
acagttaaaa gggacagctt acttgctctc tgtctcaggt ttaacttctc acctgaaatc 120
tctcatagcc ctaattaaac acaaacaaaa gtctcttcca tagataggct acttctcagc 180
ttcag                                     185

```

<210> 1349  
 <211> 171  
 <212> DNA  
 <213> Homo sapiens

<400> 1349  
 gcggcagcga ggggctcgga gaggtgctcg gattctcgta gctgtgccgg gacttaacca 60  
 ccaccatgtc gagcaaaaga acaaagacca agaccaagaa gcgccctcag cgtgcaacat 120  
 ccaatgtgtt tgctatgttt gaccagtcac agattcagga gttcaaagag g 171

<210> 1350  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

<400> 1350  
 ttgtcatatc atatctatgt cacctgtgta ttctgagatt acacacatac ctgccaatat 60  
 acctgggaaa gggtatttta tcacagttac acttgagttc ttggcaggca ggactgagga 120  
 agagtaatth gaaagaagtt ttacatccta tttagaagaa atcactagta tttccttaaa 180  
 taacagggtta caatagaaaag atactgcctg gaagttatcc tttcactttg gttcattttt 240  
 agttttttctt tatgattttac atagctgttt aattcatttg cttatagtag aatcctgcca 300  
 taaagtatta aagcacaaga tacctattat tccttcaaca tctgcatttt tcaagtttta 360  
 tactctacat ccacagtacg tcagcagttc ttgaatgttt 400

<210> 1351  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<400> 1351  
 ccaggaaagg gcagtcctga gggagaagac aggattcagg gcagtgtctc gaagctgtgt 60  
 gctcacctgg ttggctcatc aaacctggca acctgtggc ctgtctgccg gagctgactg 120  
 gatecactca tcaattcttc gtccccacta ctaagactgg gcatgttttg ctggtgtggt 180  
 ctctgcactt caggaatggt cacaacaggg ggtagccctc aaaagcactc ctttttctat 240  
 acctcttctc aaggccatgt aagttgcca tctctacctg gctgtggaca aaaggttatc 300  
 tgctcttgg 309

<210> 1352  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<400> 1352  
 ccacttcacg tgtgtgggaa cgtgggtcagg ccgggtgctg gtgtttgaca tcccagcaaa 60  
 ggggtcccaac attgtactga gcgaggagct ggctgggcac cagatgccaa tcacagacat 120  
 tgccaccgag cctgcccagg gacaggattg tgtggctgac atggtgacgg cagatgactc 180  
 aggcttgctg tgtgtctggc ggtcagggcc agaattcaca ttattgacct gcattccagg 240  
 atttggagtt ccgtgcccct ctgtgcag 268

<210> 1353  
 <211> 620  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 545  
 <223> n = A,T,C or G

<400> 1353  
 cctgagtaat tattccatca tagacaaaact tgtgaatata gtggatgacc ttgtggagtg 60  
 cgtgaaagaa aactcatcta aggatctaaa aaaatcattc aagagcccag agcccaggct 120  
 ctttactcct gaagaattct ttagaatttt taatagatcc attgatgcct tcaaggactt 180  
 tgtagtggca tctgaaacta gtgatttgtt ggtttcttca acattaagtc ctgagaaaaga 240  
 ttccagagtc agtgtcacia aaccatttat gttacccctt gttgcagcca gctcccttag 300  
 gaatgacagc agtagcagta ataggaaggc caaaaatctc cctggagact ccagcctaca 360  
 ctgggcagcc atggcattgc cagcattgtt ttctcttata attggctttg cttttggagc 420  
 ctttacttgg aagaagagac agccaagtct tacaagggca gttgaaaata tacaatttaa 480  
 tgaagaggat aatgagataa gtatgttgca agagaaagag agagagtttc aagaagtgtg 540  
 attgnggctt gtatcaacac tgttactttc gtacattggc tgggaacagt catgtttgct 600  
 ttcataaatg aagcagcttt 620

<210> 1354  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

<400> 1354  
 aaaggattat ttttatgcaa agtattctgt ttcagcaagt gcaaatttta ttctaagttt 60  
 cagagctcta tatttaattt aggtcaaatg ctttccaaaa agtaatctaa taaatccatt 120  
 ctagaaaaat atatctaaag tattgcttta gaatagttgt tccactttct gctgcagtat 180  
 tgcttttgcca tcttctgttc tcagcaaagc tgatagtcta tgtcaattaa ataccctatg 240  
 ttatgtaaa agttatttta tctgtgtgtg catgtttggg caaatatata tatagcctga 300  
 taaacaactt ctattaaatc aaatatgtac cacagtgtat gtgtcttttg caagcttcca 360  
 acagggatgt atcctgtatc attcattaaa catagtgt 398

<210> 1355  
 <211> 371  
 <212> DNA  
 <213> Homo sapiens

<400> 1355  
 ctggytcctc agtgggaact gagtcattac ctgctaaagg gtagaagagg agagagagag 60  
 gccagagcct ggggatgggg cagaagggtgc agcaggaagg aaggttagag tgagaaaaat 120  
 ttccaaataa ggggtgatgt gtgagtgtc agaggggtgac tgaggacatc tccagcattt 180  
 ccattgagga gggaggaagg aggggccctt gggttctggg gcagatgccg gcagggtctg 240  
 gatgagatgc ccccaacctc aacctgtgtc ctctgaaaac acttcacca gtcacactga 300  
 ggagccctc caggcccagc ggccctcca ggtaggcgta tctcagctcc tctctggaag 360  
 gacccccaca g 371

<210> 1356  
 <211> 338  
 <212> DNA  
 <213> Homo sapiens

<400> 1356  
 gcggcgcggg cgggcgtaaa atgtcggttc caggacctta ccaggcgggc actgggcctt 60



```

cctcagcacc atccgcacct ccatcctatg aagagacagt ggctgttaac agttattacc 120
ccacacctec agtccccatg cctgggccaa ctacggggct tgtgacgggg cctgatggga 180
agggcatgaa tcttccttcg tattataccc agccagcgcc catccccaat aacaatccaa 240
ttaccgtgca gacgggtctac gtgcagcacc ccatcacctt tttggaccgc cctatccaaa 300
tgtgttgctc ttcctgcaac aagatgatcg tgagtcag 338

```

<210> 1357

<211> 159

<212> DNA

<213> Homo sapiens

<400> 1357

```

ctgggctgct gcctctggag tacttccccg cagctcctca ttgctcacat agtaggcaat 60
ggcgttgctc tcaaacacac agaatccatc atcacccctc aatgctggga ccttgccggc 120
aggaaatttg cggagaaatt caggggtgcg gttgggttg 159

```

<210> 1358

<211> 306

<212> DNA

<213> Homo sapiens

<400> 1358

```

cctgtcagag tggcactggg agaagttcca ggaaccctga actgtaaggg ttcttcatca 60
gtgccaacag gatgacatga aatgatgtac tcagaagtgt cctggaatgg ggcccatgag 120
atggttgtct gagagagagc ttcttgtcct gtctttttcc ttccaatcag gggtctgctc 180
ttctgattat tcttcagggc aatgacataa attgtatatt cggttcccggt ttccaggcca 240
gtaatagtag cctctgtgac accaggggcg ggccgaggga ccacttctct gggaggagac 300
ccaggc 306

```

<210> 1359

<211> 382

<212> DNA

<213> Homo sapiens

<400> 1359

```

agagggagtc cagcccccaa gccttgtgag gcactgttar gcagataggg aaaagagggg 60
tccttagatc actggttcaa ggagggatct ggtaggggca gcatttcttc tgggctggaa 120
acagaatggg ggtttcaaga tggcagaacc attccattat tggagctata agccctaga 180
attgtccat ggccatcttc ggtttccctt ggatctcatc tgctcctgaa ctgcacctgt 240
catggcaagt ccatctccgg ccccatctc cctgagcca atgtgagtca ggtgaacaaa 300
attcattggg tccccaatca tggtcgggtc aatccgtctt ctcttcttct ttcttctcca 360
ccatccagac gttcagctac ag 382

```

<210> 1360

<211> 365

<212> DNA

<213> Homo sapiens

<400> 1360

```

aaaaaacctt taaaaataaa acttagtaaa atctagaact gkttcttggc ctacttgaga 60
ggaacttcca tattttcaca gccatctccg aaagcagcag ttgctgtaaa ttaactgaga 120
cttggaatg gtgcagactg tcttggtaga gctgttctta tagcacaatt ttatctggaa 180
aataaacttg taaatgcgtg ctgtatatatta atacatgtgt gcccatattt atttttatta 240
tctcctgcca gtctttgctc aatgggagat gacagaccaa cttctcaacg tgatttcccc 300

```

atttcattga atgacattta tatgccactt atgaaaaaaa tactgctgtg aaagaaatgt 360  
acttt 365

<210> 1361  
<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 1361  
gaggtatgga aaaatatcaa caaggaaata ttagatttga actgctgctt cgttagcaca 60  
cagcacattc tccaggatat accatatggt aggacacaaa acgggtctca ataaattttt 120  
aaaagtcaaa atcttatcaa gtatcttctc agaccacaat ggaataaaaac tggaaatcaa 180  
taacaagagg aacttctgaa attgaacaga tacacggaaa tcaaactaca tgttcctgaa 240  
tgaccactgt gtctatgaag aaattgattt taaaaattta aaaattcttt gaaacaaatg 300  
aaaatagaaa cacagcatat aaaaatgtat aggggtacaac aaaagaagtg ctatgaggga 360  
cattttatttc aataaacacc cacatcaata aggtagaaag tttttaaaca aataacctaa 420  
taaacgcata tcaaggaact agaaaagcaa gaacaaatca aacctaaaat tagaaggaaa 480  
taaataagtaa agatcagagc ag 502

<210> 1362  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 1362  
ctgattggat gtctaggaat gactgaaaga aacaaaaaca gcctgtccac tgcctgctgtg 60  
ggatggagga ggcgtaagca gaaacactaa cagtatactg acctcttagc agaaccgctt 120  
ccattctgga gatcacggct gctaaatcca gcatccccac ttcattttac cccacgcata 180  
ttgttctgta gtcttttctt gaaacatctt gattgctttt cctcggcagc tttcaaaaaa 240  
ccaaataata atagttatcc gtcttctact tcatggaaga ttgttttggg gccctgacct 300  
tctgaagtgc ccagttcctg ccactctgaa cctcggcctg atctgatctc atgttggaat 360  
ctgcctgtct ttcacacagg gctgggtctg gtccctttaca tgccagtttt gcttggtgaat 420  
tcttgctttt ttcctctcat cagccttaag tttaggcgtt tgttggtctc cagtgatgta 480  
gacagttccc ttcacaagtc acagttcttc ccataaatga ggcccgtgta cctctgcggg 540  
acttt 545

<210> 1363  
<211> 286  
<212> DNA  
<213> Homo sapiens

<400> 1363  
gggagatgca ggatgtagac ctcgctgagg tgaagccttt ggtggagaaa ggggagacca 60  
tcaccggcct cctgcaagag tttgatgtcc aggagcagga catcgagact ttacatggct 120  
ctgttcacgt cagcgtgtgt gggactccca agggaaaccg gcctgtcatc ctacacctacc 180  
atgacatcgg catgaaccac aaaacctgct acaaccccct cttcaactac gaggacatgc 240  
aggagatcac ccagcacttt gccgtctgcc acgtggacgc ccctgg 286

<210> 1364  
<211> 503  
<212> DNA  
<213> Homo sapiens

<400> 1364

```

ccatcaggat catgaaaaca aactttggtg aatgtgagca actgcgccag acaggacaca 60
ggttacaggg cctgacgtca ctaacggtaa ctgacaatct tggaatggac cctactgctg 120
atgtttcaaa aggacacaga ggtgaactgg tcacttctaa ttaagaagag ccagtggggg 180
gggggaagct gaaaaccaaa aatccacgta gacatacgtg gcagtgtgaa cgtctgtcct 240
cccccttctt ctctcactt cctctcctcc tcctcactca ggctgggtatt ctcttgggtg 300
gcggtatgtc gcttgccctg cagaagggct gccagttttt tagatgtctt tttgagaaac 360
gagctgcccc gatgggcact gttcacgtgc aggtacaggt cctcctgggt ggggcccgtg 420
tagccgcaat cctcgcagac gtagagcttg tcccgcgct gcttataggc atactgctgc 480
tgcaccccat ggattttctt cag                                     503

```

<210> 1365

<211> 245

<212> DNA

<213> Homo sapiens

<400> 1365

```

ctgggcggct ccacgctcat ccagtgggcc taggttctga ctgaccagcg aacaaaaact 60
gtgacagaga tctaggattt cattcaggca gtgaaacacc taccgggaa acagagttgg 120
cattaggaaa ggaaggaagg tacatccatg aagttaaagt gttaggagaa cagtctgatt 180
aatagctgat ctaattaata gctgacctcc caaatctgac aggatagaca ctgccacgtg 240
caagg                                     245

```

<210> 1366

<211> 131

<212> DNA

<213> Homo sapiens

<400> 1366

```

aaaatcccca taaatctttt ctgtcctgag gtagttgcaa aataaatcat aacttgata 60
tcaactagag ctgaggcttt gactttttac tcattaaaac tagttgttac aggaactacc 120
tttagatatt t                                     131

```

<210> 1367

<211> 430

<212> DNA

<213> Homo sapiens

<400> 1367

```

ctgtgcagtt atatgaccat aaaggaaatg aaccattaaa aatggatcta cagccatata 60
ttctgccgtt actcagagggc ttaatgattt attttcccc tccagccctg cttttaccag 120
gttaaatgac agaagacctt ctattgtacc tattgttcaa aaaatattac tgttctgtgg 180
aacctgggag agtccaattg ataagagaaa ctgaatcata ctgatgaggt gaaggatagg 240
tctgccggtg tggggcaggg cactctttct cagcagccaa gataacttat cacacacgaa 300
gcagagagaa tgcaccogat gaaaatctct ctgaactgtg ttccctgaag gatctcttaa 360
aaaaaaaaaa tctgaaacat catccattga acaaatgaaa ggcttatacc tttaccatga 420
agaaacattt                                     430

```

<210> 1368

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1368

```

ctgggcggat agcaccgggc atatttttga atggatgagg tctggcacc tgagcagtcc 60

```

```

agcgaggact tggctcttagt tgagcaatth ggctaggagg atagtatgca gcacggttct 120
gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga 180
ttacagggtt gggaacagct cgtacacttg ccattctctg catatactgg ttagtgaggt 240
gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcttt gtgg      294

```

```

<210> 1369
<211> 429
<212> DNA
<213> Homo sapiens

```

```

<400> 1369
ctgaaggcaa tgggggactg aggaaggagg cagcagaagt aggagaggag caagaatcca 60
gaagggaat  gagaacgaca aaactgaagt gcacttcaac atcctgcagc caaaggggta 120
aaaaggagaa agaagtgcag accagtcaca taaatgccac agtgacatgc acaaaaacgt 180
gaggggcaca ctccaggggac agagtctgac aacatgacaa gctacatggc atcaaaactct 240
ttcatgtgac aggcagcttt tcacatgtgc atcttaagac tggaacttgc tatagataaa 300
ccttaagtag ttaataaaaag caaaagtcac cctctattca ctgtttgctg ccatgtttcca 360
ggcatagtac ttggcacttt ttattttatt tcacttgatc agctcagaaa gtctctccaaa 420
tgagtatth      429

```

```

<210> 1370
<211> 540
<212> DNA
<213> Homo sapiens

```

```

<400> 1370
ccactcccag gatgctgggt ctgctttgct ggctgggacc ccggagccgt cagtccacgc 60
actcccgat  gcactcaaca acctaaggac gcaggagggt tccgggggatg gtccgagctc 120
gtccgtagat tggaatcgcc ctgaagatgt agaccctcaa gggatttatg tcatactctgc 180
tccttccatc tacgctcggg aggtagcgac gcccttttc ccccgctac acactgggcg 240
cgctgggcag aggcagcacc tgctttttcc ctacccttcc tcgattctgt ccgtgaaatg 300
aattgggtag agtctctgga aggtttttaag ccattttca gttctaactt actttcatcc 360
tattttgcat ccctcttacc gttttgagct acctgccatc ttctctttga aaaacctatg 420
ggcttgagga ggtcacgatg ccgactccgc cagagctttt cacttgattg tactcagcgg 480
ggaggcaggg gaggcagagg ggcagcctct ctaatgcttc ctactcattt tgtttctagg 540

```

```

<210> 1371
<211> 142
<212> DNA
<213> Homo sapiens

```

```

<400> 1371
ttaaattggt agcacaagag tctggcaagt tggtagtgc gagaaaaggg gtttaattgag 60
gcttggttgg agtcgggatt cccctttccc aaacatgcgt ctgcgcactt ggacagcagc 120
catttgtagt cgtatacttt tt      142

```

```

<210> 1372
<211> 377
<212> DNA
<213> Homo sapiens

```

```

<400> 1372
ccaccatctg tgcaagtagc caaaaccact ctttttaaca cgagggagcc tgtgatgctg 60

```

```

gcctgctatg tgtggggctt ctatccagca gaagtgacta tcacgtggag gaagaacggg 120
aagcttgtca tgcctcacag cagtgcgcac aagactgccc agcccaatgg agactggaca 180
taccagaccc tctcccattt agccttaacc cctctttacg gggacactta cacctgtgtg 240
gtagagcaca ttggggctcc tgagcccata cttcgggact ggacacctgg gctgtccccc 300
atgcagaccc tgaaggtttc tgtgtctgca gtgactctgg gcctgggcct catcatcttc 360
tctcttggtg tgatcag                                     377

```

```

<210> 1373
<211> 504
<212> DNA
<213> Homo sapiens

```

```

<400> 1373
ccatgctaag tttgggaacc gctgggtgat ggacatggat gcttgcaacc gaccgtgggc 60
ggatgtggtt gaccagatgg cagaggacga caccatccat gagggctgcc cccaggtctt 120
cgtgcagact gaccttcaat ctcactcaca tgctctcagc aagttgttcc accagctctt 180
tctcttctct catctgctcc attttcctcc ggattgtaaa ctgcgggtct atagattcca 240
aatttctctg aggtcttaga aacacagact cagaaatcaa atgaggatgt ctacagaaagg 300
agtcactttt ccagaggcag gctgcccctt aactcagccg agcagcagga accactgggg 360
ccaaagctat tttatcttcc ttaggtaaaa aaaaatcaat agaataattc ttccccgctt 420
acatgctccc accactgatg aacgcgatct tcagcaagaa gaactttgag tccctctccg 480
aagccttcag cgtggcctct gcag                                     504

```

```

<210> 1374
<211> 201
<212> DNA
<213> Homo sapiens

```

```

<400> 1374
cctccgtaag atgcttgaca attttgactg ttttgagac aaactgtcag atgagtccat 60
cttcagtgtc tttttgtcag ttgtgggcaa gctgcgacgt ggggccaagc ctgaggggcaa 120
ggctataata gatgaatttg agcagaagct tcgggcctgt cataccagag gtttgatgg 180
aatcaaggag cttgagattg g                                     201

```

```

<210> 1375
<211> 295
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12
<223> n = A,T,C or G

```

```

<400> 1375
ctgtgaggct gnttccaagg aggaaaacaa ggaaaaaaat cgatatgtaa acatcttgcc 60
ttatgaccac tctagagtcc acctgacacc ggttgaaggg gttccagatt ctgattacat 120
caatgcttca ttcattcaac gctaccaaga aaagaacaaa ttcattgctg cacaaggacc 180
aaaagaagaa acggtgaatg atttctggcg gatgatctgg gaacaaaaca cagccaccat 240
cgtcatggtt accaacctga aggagagaaa ggagtgcagg tgcgccagc actgg      295

```

```

<210> 1376
<211> 318
<212> DNA

```

<213> Homo sapiens

<400> 1376

```
ccagcgctac tgtactggcc cagggcagag ttcatgtatc tctgtcttgac cactgtctaca 60
ggggaggcga tgacagtggg gcagaagcct gcccacaagg cagaagtga gttggcaagg 120
aggtcatctg tcatgagggt ggctttcagg agggcatcct tgatgaggtc ataggtcacc 180
agctcagcac agttgacaat ggcattacga gcaacattgg gggagggtccc ttccagagg 240
ccccggaacc ctctctctcg ggcaatggtc ttgtaggcat tgacgggtgt ttggtatctc 300
cgaccacctc cagcccgg                                     318
```

<210> 1377

<211> 143

<212> DNA

<213> Homo sapiens

<400> 1377

```
gtggattccg ytcggggcac cgatctcgcc aagatcctga gtgacatgcg aagccaatat 60
gaggatcatg ccgagcagaa ccggaaggat gctgaagcct gggtcaccag ccggactgaa 120
gaattgaacc gggagggtcgc tgg                                     143
```

<210> 1378

<211> 98

<212> DNA

<213> Homo sapiens

<400> 1378

```
aaatattggg aatagggtcg caacagcaac tatagaagta caactcaata gatggcatta 60
aaacatattg tagtgtggat atatattttt tctttttt                                     98
```

<210> 1379

<211> 330

<212> DNA

<213> Homo sapiens

<400> 1379

```
aaagatgttc acgttacgct ggaccaaatt aagacggctt tctccctctt gctgacgtgc 60
cccagccgtg ataatgacca gcttggagtt tgcagttaca ttatagtctt tgccagagac 120
aatcttttgt gttctaagga aaaggctgcc atgttggaga tccatcatct ctcccttcaa 180
tttgtcttcg acgacatcaa caagagcaag ttcactctgc aagtccttca ttaagatact 240
gatggcacag gccatgccaa cagcaccaac cccaacaact gtaatcttat tctggggggg 300
ctgttcttcc tttagaagat tataaatcag                                     330
```

<210> 1380

<211> 269

<212> DNA

<213> Homo sapiens

<400> 1380

```
ccactcctgg aaaccactg atagatgagt ttccccatt cttctggcct ccgccacatg 60
atcaggaagc tggacttgct cttatccaac cactcgaggt tccctttctt cctcagttcc 120
tctaatacaa tctggatcga ctccacagga agctttcgct gtagcttgac gttgttgaag 180
agcgggctct cctgagcttc catcacgctc atgctggact gtttgtgcag gcggcagaag 240
gacaggacca gcgagacca ggcggccag                                     269
```

<210> 1381  
 <211> 232  
 <212> DNA  
 <213> Homo sapiens

<400> 1381  
 aaaagagagg aaaggcagtg cagggctgga ggtcctggag ggtggcggcg ggtcgtccta 60  
 actagcaggc tgaaagggtgc tggaggggat gccttcactc agaggaagtt cacagccacc 120  
 tgccttgga catgtacctg ttcattcttt cgtaatgtta gtattcattt tgctatcttc 180  
 ctgttgccat ttccaaacag tgtcagtatg tttttgttaa atacgaacat tt 232

<210> 1382  
 <211> 348  
 <212> DNA  
 <213> Homo sapiens

<400> 1382  
 aaacgtgcta aagggaaagg aatctgacat tctgggtaaa tcttactcaa tctaaatcaa 60  
 agcttggttt tcaggaggag gaagggtgcga gcgcaggcag aggtgctgaa tactcctctt 120  
 ctgattcaact tccatcatcc tctttctctt ggtcactgcc ctcagtgcta agccgggtcaa 180  
 acccttttctg actgtagccc ttacggcttg caaagaaatt accaaggttt aagcctccac 240  
 ttccctttcc tctaaatctt cccagtactc ttctgaact cgtctcgagt ttgtgttcag 300  
 aatctccaaa ggcccttgat tttttccacc gaataaatat ggcaatgg 348

<210> 1383  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 10  
 <223> n = A,T,C or G

<400> 1383  
 ctgcttcaan acctcagctt catgggactt gcgtctttct tctgcagctt ctaatttctt 60  
 ctgaatttcc tccagggaaa gatccttctt ctttggaggg gaaaggggga attctggaac 120  
 agattctttt gaccgagggc tgagaatcag ctcaaaagcc tggcccagag cacgcttctc 180  
 cagttctttc acctggatat cagaagaagc catggtgaat agaagacaag cgacaggcag 240  
 tgtattctgc acaatcaact gggataagga aagtcttgct cagtccgagc cgc 293

<210> 1384  
 <211> 573  
 <212> DNA  
 <213> Homo sapiens

<400> 1384  
 ctgaagcaac ttgggattaa ttgcttgatt agcttcacga agcacagaga taaggctcgt 60  
 cacttgcttt atgttattag gtgtaaagaa agtgtatgct gtgcctgttt tggtagctgc 120  
 agcagttctt ccaattcgat gaatataatc ctctgaggag ttagggtagt cataattgat 180  
 gacaaaattc acatcttcca catctagccc tctggaggcc acatctgtag caatcagaat 240  
 aggagctttt ccatgtttga attcatttag aaccagtcga cgctcttggt gactcttgct 300  
 accatggata cccatggcag gccacccatc tctctctatt tttctggtaa gctcatcaca 360  
 tcttcttttg gtttcacaa aaacaatggg tttattctcc ttctcactca tgatctcttc 420

1381 1382 1383 1384  
 232 348 293 573  
 DNA DNA DNA DNA  
 Homo sapiens Homo sapiens Homo sapiens Homo sapiens

```
<210> 1385
<211> 150
<212> DNA
<213> Homo sapiens
```

```
<210> 1386
<211> 159
<212> DNA
<213> Homo sapiens
```

```
<400> 1386
aaatgatgtt ttggttaaga gtggaccatg agaattagct gacagcatcc cttttctctc 60
tccttgcctt ggtgggaccc tccttgtgtg accttggta agtcctcgaa cttttgtccc 120
gtatttaaga tggagctgnt ttacctactt cataagaca                               159
```

```
<220>
<221> misc_feature
<222> 5, 20, 41
<223> n = A,T,C or G
```

<400>	1387						
ggtgnaattc	gcotttgaan	ggcgcgcggg	caggtccttt	ntgtstgctg	aaggcagatc	60	
gcttggtcca	caccagctac	cactcccagg	cagtgcata	ccgccctggt	tgcagaaatg	120	
cacgctgtac	tagcatctcc	tgggagctga	ggcagaccct	gtcagttgta	tttgatgcct	180	
tcatcacggg	gcagggaaag	aaagactggg	ccctcttccg	gatgttctcc	cgaacctcca	240	
cggagccctg	ccccctggct	tcagagagcc	gagtctatgt	ggacatcacc	acctacaacc	300	
aggacaacga	gacattagag	gtgcacccac	ccccgaccac	tacatatcag	gacgtcatcc	360	
taggcaactc	gaagacctat	gccatctatg	acttgcttga	caccgccatg	atcaacaact	420	
ctcgaaacct	caacatccag	ctcaagtgga	agagaccccc	agagaatgag	gcccccccag	480	
tgccctttct	gcatgcccg	cggtagctga	gtggctatgg	gctgcagaag	ggggagctga	540	
gcacactgct	gtacaacacc	caccataacc	gggccttccc	ggtgctgctg	ctggacaccg	600	
taccttggtg	tctgcggctg	tatgtgcaca	ccctcaccat	cacctccaag	ggcaaggaga	660	
acaaaccaag	ttacatccac	taccagcctg	ccaggaccg	gctgcaaccc	cacctcctgg	720	
agatgctgat	tcaga					735	



<210> 1388  
 <211> 369  
 <212> DNA  
 <213> Homo sapiens

<400> 1388  
 ctggggacag cctacagggg cctccagcct gtgccagacg aggaggtgat tgagctgtat 60  
 ggggggtaccc agcacatccc actataccag atgagtggtt tctatggcaa ggtccctcc 120  
 attaagcagt tcatggacat cttctcgcta cggagatgg ctctgctgtc ctgtgtggtg 180  
 gactactttc tgggccacag cctggagttt gaccaagcac atctctacaa ggacgtgacg 240  
 gacgccatcc gagacgtgca tgtgaagggc ctcatgtacc agtggatcga gcaggacatg 300  
 gagaagtaca tcttgagagg ggtgagacg tttgctgtcc tgagccgcct ggtggcccat 360  
 gggaaacag 369

<210> 1389  
 <211> 322  
 <212> DNA  
 <213> Homo sapiens

<400> 1389  
 aaagatgttt ctggcatttt ctttttattt gtaaggtggt ggtaactatg gttattggct 60  
 agaaatcctg agttttcaac tgtatatatc tatagtttgt aaaaagaaca aaacaaccga 120  
 gacaaaccct tgatgctcct tgctcggcgt tgaggctgtg gggaagatgc cttttgggag 180  
 aggctgtagc tcagggcggt cactgtgagg ctggacctgt tgactctgca gggggcatcc 240  
 atttagcttc aggttgtctt gtttctgtat atagtacat agcattctgc cgccatctta 300  
 gctgtggaca aaggggggtc ag 322

<210> 1390  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<400> 1390  
 aaatattagw tgagacttta caggcacata actgttcaga tagaaacaaa cataacagac 60  
 taaaatactt tcaaaattaa agccatctag aaaatggaag taactgaaac ttagaccatt 120  
 acaattcttt ttctggtttt gagcaaaaat tttatctctc tggcaaaaaca cttttgtctg 180  
 atcatttgag agacagggtt cttgtatact gtttcttcaa cgtaaacctc atttacaata 240  
 atagtacat agcattatga ataaactatg aattggggac catggaaatg cactagaaca 300  
 aattttgtaa aaatatggca gatatggaag ttaaaaatag aatggatgca aggactgtac 360  
 taaagggtgt tggtgtagtt acaatgttca ctttgacaaa ctatccctat agtctaggta 420  
 gccattgggt ttctcctcag cagtgtcaga 450

<210> 1391  
 <211> 304  
 <212> DNA  
 <213> Homo sapiens

<400> 1391  
 aaaaaatcat aaatgggggt tcataatcca aagttgaaac atttattctt catagcttca 60  
 gaatttaaca accaattgta gaccatgctt tccaaatcca gtcttctttg ctatttttca 120  
 aaacttctga gatctagtat taaactgtct cattctaaat gtatagtttt agataagtat 180  
 tgtacacttg ttgataagggt ttttctgaaa gcagtctatc aaatataaag aatggtttct 240  
 atctaagaat cagcagtgag ggaagaaata ttaaacacct atcaagaaat caattattca 300  
 tttt 304

<210> 1392  
 <211> 140  
 <212> DNA  
 <213> Homo sapiens

<400> 1392  
 ctggaagaag aactgagaca gcagaaagaa gcagcttggt tcaaggctcg tccaaacacc 60  
 gtcattcttc aggagccctt tgttcccaag aaagagaaga aatcagttgc tgagggcctt 120  
 tctggttctc tagttcagga 140

<210> 1393  
 <211> 166  
 <212> DNA  
 <213> Homo sapiens

<400> 1393  
 aaaactttgt ttttcttaaa agcttacagt gtttggttaa ttctctctcc ctttttataa 60  
 gacggggggc ggaggggtgga cactggtggc aggttaaggg atactgtcac ttttaagaagc 120  
 ctgcagattg aagtgtaaac atggagaaat taggggctga tttttt 166

<210> 1394  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 1394  
 gcagaggctg tgggtacaaca tggctccttg tgaagacctg cacccttgga acctcccacc 60  
 atcatcacia ctgtagtctc atttgacgtg gagaaaagaa cccgacgtcc cacagccaga 120  
 taacacacca gctccatgcc agcccttcat gtttaccttt tgctttgtta attacatgtc 180  
 agactcctag agggcctcca gactaatagg aagcatttct gtaaccaacc tgccaccac 240  
 tgattcagaa atggaaatca cattccacaa tctatggctt ctaccagcta gccaggaaa 300  
 tacttgaaat cagcattcca attagtgttg agtctcttga ttgtgtcatt taccaattaa 360  
 ataactgaga cctaagtctg ggaacagagc cacgaatctg cctttgagat gctggcagat 420  
 ctcaaggcca tcaattattg ggggagggag ggacaaacac tcccaatcat ccaccagtca 480  
 gactgaatgt gtagctggcg aggaattact tccacttctg gccagcaca agccctgctt 540  
 tgg 543

<210> 1395  
 <211> 364  
 <212> DNA  
 <213> Homo sapiens

<400> 1395  
 cctatcatca gtgggggttg attcaccatc atccagggtg ccatcttcat acaaggtact 60  
 agctatgacc aaccgaaact tgtcacccaa gtctacaggg taaatttgaa tgtttacatc 120  
 taagattaga tccatcttga aagattcact ctcacaatgc agtcgagaca ctcggtcaaa 180  
 cttcttgccc tccgggtcaa tctccttcac atcgaaaata tcctcaaaca ggatgcccgc 240  
 catcgcgagg gggccacgag agcagcagaa ggggtgagag cgcgaccaca gttgggagta 300  
 cgtgcacccc ctagegtgga caagaccgga gagaaccaa agcacctcct gaaagcgcgg 360  
 cggc 364

<210> 1396  
 <211> 422

<212> DNA  
<213> Homo sapiens

<400> 1396

```
gctgctgctg ctattgtgtg gatgccgcgc gtgtcttctc ttctttccag agatggctaa 60
cagggggccc agctatggct taagccgaga ggtgcaggag aagatcgagc agaagtatga 120
tgcggacctg gagaacaagc tgggtggactg gatcatcctg cagtgcgccg aggacataga 180
gcacccgccc cccggcaggg cccattttca gaaatggta atggacggga cggtcctgtg 240
caagctgata aatagtttat acccaccagg acaagagccc ataccaaga tctcagagtc 300
aaagatggct ttttaagcaga tggagcaaat ctcccagttc ctaaaagctg cggagaccta 360
tgggtgtcaga accaccgaca tctttcagac ggtggatcta tgggaaggga aggacatggc 420
ag 422
```

<210> 1397  
<211> 653  
<212> DNA  
<213> Homo sapiens

<400> 1397

```
ctgacctgct atcccacccc aaatttcagc ctgaggtata tttcagtgaa ggcaggtagc 60
tgtgtctctc agagcagaga agcagtttta agagcaaaaa ggtagaggaa atctagaaaa 120
gaaccgtctt gatacagatt tatcccatgg tgtgaaggga gggcaaagaa cccagtgcca 180
cttcgcttat ccagcaattt ctgtcactgt ggtgaccaac ttctgcccgt tccatagggt 240
cttgaactgc tcaggaactg ggaattcatt aaagtcaccg ccttctgtag gaatgaggac 300
attcatctcg gaagatttgg cactgactat ttcacaatcc aggaattct tgctcaggta 360
agcatggcag ccatctgttt tgttgatgga tatggttggc actttacca ttacctgaac 420
tttgacatcc ttactgttga ttatctccac aatgcccacc acgtcatcga ataccaggcc 480
aagtttctta cagttatcta ctgtaatgga gttaattttg cccttgattt gcaatgtcgt 540
gttgacacac ttgtatatgt aagccacctg tttcagctct gtgtcctcaa tcaccagggt 600
ggaaacattt tcttgatttt cctctcctt tcttgccctc agttcaagta cag 653
```

<210> 1398  
<211> 261  
<212> DNA  
<213> Homo sapiens

<400> 1398

```
aaaattataa ctactcattc tttcttttagc cttagataat ttgagcagaa gccacaacaa 60
gcaaaccaca ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc 120
cacactacta ccatttacag ttgtaggttt gtaatgtata attatgtaat gcasaaacta 180
gctttgactt gtgtracgat gcactgtcaa aggaagcaaa gtaagaattg aaattccaca 240
ttcccagaat ttaacactca g 261
```

<210> 1399  
<211> 195  
<212> DNA  
<213> Homo sapiens

<400> 1399

```
ctgattttat ttctttctca aaaaaagtta tttacagaag gtatatatca acaatctgac 60
aggcagtga cttgacatga ttagctggca tgattttttc ttttttttcc cccaaacatt 120
gtttttgtgg ccttgaattt taagacaaat attctacag gcatattgca caggatggat 180
ggcaaaaaaa agttt 195
```

<210> 1400  
 <211> 120  
 <212> DNA  
 <213> Homo sapiens

<400> 1400  
 ctgcctccaa ccctttgggt ctccaccacc caagtttcct gtaggggccg ccgggtccag 60  
 gatcacaggc ctgggtttcg tgagctgect ttcagggtac ttttcaataa tgggggttttt 120

<210> 1401  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<400> 1401  
 ctgtagccaa aaagatgctg gggcagattg tggacaagta gaagcacctc cttccccctct 60  
 gcgacattga acggcgtgga ttcaatagtg agcttggcag tgggtgggagg gttccagaag 120  
 gttagaagtg aggtctgtgag caggagcctc tgccagggga catgcaatct gcaggaggagg 180  
 gctgaggggg gtcccatggt ctctgctgtc ttctctgtcc acctctttgt agaggagctt 240  
 gagctccagg aatgctctgg tcagggtctgc tgtgactgtt ggcc 284

<210> 1402  
 <211> 198  
 <212> DNA  
 <213> Homo sapiens

<400> 1402  
 ccaggtttct gctggtacca ggctaagtag ctggtgctgg cgggaacact gtgactggcc 60  
 ctgcaggaga ggggtggctct tcccccgga gacagagaca gcgtgtctgg agactgtgtc 120  
 acttcaagct ctgcgatgcc atctgggagc cagagtagca ggaggaagag aagctgcgct 180  
 ggggtttcca tggttccc 198

<210> 1403  
 <211> 441  
 <212> DNA  
 <213> Homo sapiens

<400> 1403  
 aaactcaaaa ttgacaaatt aactagcttg ctttttgtca tttggaagac taccattatt 60  
 caaatattatt atgtaataca ctcatccaga taatgaaaca tctgcgaaaa aaagtgtggg 120  
 aatcacctca tctgtgcata aaatggctat tatacatgaa tgcagacgtt tgaagttaga 180  
 aaggaatata actcaaatag caaaagggtcc taattacaga gtttacaat aagcagtttt 240  
 attttcaaaa gtacatagta agtccagact gggctattgc caaagaacta atcttttagtc 300  
 tacttcaaca tgttacatgg tattcctgac tctacagact atcagcatct gtggagggtta 360  
 gtccttaaag gtcccaaaga acaggaaaca tgcaggaata aaggactcct catgaagagc 420  
 aggtggggagc gagggtggcag g 441

<210> 1404  
 <211> 243  
 <212> DNA  
 <213> Homo sapiens

<400> 1404

```

tgaaggggtt cttggaagac ctggcacctc cagagcgcag cagcctaatt caggattggg 60
aaacatctgg gcttggtttac ctggactata ttagagtcac tgaaatgctc cgccatatac 120
agcaggtgga ttgctcaggt aatgacctgg agcagttaca catcaaagtg acttcactgt 180
gcagtcggat agagcagatt cagtgttaca gtgctaaaga tcgcctggct cagtcagaca 240
tgg                                                    243

```

<210> 1405

<211> 168

<212> DNA

<213> Homo sapiens

<400> 1405

```

aaaccactgg atctatctaa atgccgattt gagttcgcga cactatgtac tgcgtttttc 60
attcttgtat ttgactatatt aatcctttct acttgcgcgt aaatataatt gtttttagtct 120
tatggcatga tgatagcata tgtgttcagg tttatagctg ttgtgttt 168

```

<210> 1406

<211> 486

<212> DNA

<213> Homo sapiens

<400> 1406

```

ctggacatac agaaattggt gaatttttgt tgcaacttgg agtgccagtg aatgataaag 60
acgatgcagg ttggtctcct cttcatattg cggcttctgc tggccgggat gagattgtaa 120
aagcccttct gggaaaagggt gctcaagtga atgctgtcaa tcaaaatggc tgtactccct 180
tacattatgc agcttcgaaa aacaggcatg agatcgctgt catgttactg gaaggcgggg 240
ctaataccaga tgctaaggac cattatgagg ctacagcaat gcaccgggca gcagccaagg 300
gtaacttgaa gatgattcat atccttctgt actacaaagc atccacaaac atccaagaca 360
ctgagggtaa cactcctcta cacttagcct gtgatgagga gagagtggaa gaagcaaaac 420
tgctggtgtc ccaaggagca agtattttaca ttgagaataa agaagaaaag acaccctgc 480
aagtgg                                                    486

```

<210> 1407

<211> 560

<212> DNA

<213> Homo sapiens

<400> 1407

```

aaatatatgc ttttctagaa tttgatgttt gaccatttat gacttaatta ccagagagcc 60
agtaaattag gacagtgttt caacaagcct aggctatctc gtaagttgaa aaatatccca 120
ctatagttgc ttcattgagta tgaagtaaga tggcctctga tttacactgg ttcaatttac 180
aaattttcaa ctttatgata ggtttatcag ggtactaaat gcatttcaac ttgatagttt 240
caacttatga taggtttacc aggatgtagt cccactgttg aggagcatct atttaggagt 300
taattacttt agtaataagt ggaaagtaag ataccttgag taatgtttgc ctataaaatt 360
gtcagcgtat ttttacacta ttggctcaag aatgttataa tgctaaggga cataagttgg 420
caaccacttg gtttttggaa ggactttcgg tattgtatta gaagtctgcc ctagctgtta 480
aattttctggg tattttatcct aaggaattaa ttaaagagtt aattgttctt ttcttcagtg 540
ggccattggt ttagatatatt 560

```

<210> 1408

<211> 360

<212> DNA

<213> Homo sapiens

<400> 1408

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<210> 1409

<211> 208

<212> DNA

<213> Homo sapiens

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<210> 1410

<211> 404

<212> DNA

<213> Homo sapiens

<400> 1410

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aacctatcaa aaccaactgg ctgccacttt gagtttggac agtagctgca taaactttgt 180
tcttcttgar cagtatttaa taacatcatt aatacatcaa caacatttct ataaagtaag 240
acacattggt gctgaagtac aactgggtggc ctcttgatct cacctatgag gagagtctct 300
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<210> 1411

<211> 623

<212> DNA

<213> Homo sapiens

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<222> 428, 469

<223> n = A,T,C or G

<400> 1411

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gctcactgtg cttgtctctt tcttgatgtg tcgaaacatt attctaggca aatcacacta 420
tgtattgnat gggctggtgg ctgccatgca gccccgaatg ctggttacng tttgatgagg 480
agctgcgggc attgccagtg tctgtccgtg tgggccaggc agtggatgtg gtgggccagg 540
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ccacgggggaa cgggcagaat tgg                                     623
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<211> 171
<212> DNA
<213> Homo sapiens
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<212> DNA
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<210> 1414
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<222> 511
<223> n = A,T,C or G
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ttttgggggg ggaacaaatt ctacaaactg ctttaatat gkccittttt tctaataattc 180
acattaactt tttatgtaaa acataccaat gcttttaata aagcttacat aggaataaac 240
tattatagac ctgcatagat ataagtaccc atgtattaat ctacattaaa ataatggatt 300
ttattctgcg aaractccaa gttgctcctg ggkgctaagk gaagcactta gggaaatgtg 360
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taagtggccc ttctgtcctg tagatacata aaaactaatg ggctccgcta tgcggctcac 480
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<211> 231
<212> DNA
<213> Homo sapiens
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agtataattg tacctaaagt atttataaac agctcatcgg agcctctatt tgtcatagac 180
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<210> 1416
<211> 540
<212> DNA
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<400> 1416
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atgggacaag tgtaaagcat gcaaaagtta gagatctggt atataacatt tgttttgtga 180
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tatattttta gaattatttca gaaatataca tttatgtctt tatattgtaa taaatatgta 420
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<210> 1417
<211> 350
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
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<223> n = A,T,C or G

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<400> 1417
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tttattcaag tcccaacact gagttcagag cacttctcca taggccccat taatctctcc 180
aggtttctgg gagtatcatt aaatccctcg gcctccttaa gaagcaggtg cttagcaaac 240
atccagtttc caaatgagag tcagaggggc ttgatcctga aagtgtagta ttttcctgcc 300
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<210> 1418
<211> 425
<212> DNA
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<400> 1418
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ggaaattctt tctttagaca ccaacttggg ttttctcatc ttccacagaa taattgaacc 180
cctgacctct agatgttcaa aattccgctt caagcctctg tcagataaaa ttcaacagca 240
gcgattacta gacattgcca agaaggaaaa tgtcaaaatt agtgatgagg gaatagctta 300
tcttggttaa gtgtcagaag gagacttaag aaaagccatt acatttcttc aaagcgctac 360
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accag 425

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<210> 1419

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<211> 390  
 <212> DNA  
 <213> Homo sapiens

<400> 1419  
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 ttgcctgata aacaatttgg gcttctctgt tgtacaaggg gccatttggc atacctTTTca 180  
 cagctTTTtat caggccaagt taaaggctga ctacattTTT tcatcatgag gaaagcagtt 240  
 gaaatgaggc atgagttact gtgcattggg attTTtagaac aattTTtcttg tgacagctct 300  
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<210> 1420  
 <211> 480  
 <212> DNA  
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<220>  
 <221> misc\_feature  
 <222> 322  
 <223> n = A,T,C or G

<400> 1420  
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 gotgagccag agtctccagc cactacttct tattctctggg ctttagctct tcggctgcat 180  
 tacgcaggaa aatgtaattt ttttctctggg gattataaaa ttcattgtccc tttgaccagt 240  
 cgtagctgga agcgtatgca aatatgtttc cattgygatt gaaacagcaa gctgasatgg 300  
 gctgayctaa ctgttccgaa gnttttagtt ttgktctggc atctttgycc cagaagctga 360  
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 caaccaagac tgccaggctt ggtgtcatgg gtatgccag agcccaggag ttcagaaggg 180  
 ccctaagcct gatttaatgc tctgctgttg atgtcttgaa attcttaaca atTTTtgaac 240  
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<210> 1422  
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 <221> misc\_feature  
 <222> 4, 151, 166, 220, 231, 308, 349, 364, 511, 528, 537  
 <223> n = A,T,C or G

<400> 1422  
 ttttcttgac cactatacgg cacaacctag gggstgtawa aaacctascr caatgcagaa 60  
 ggggtgaagct tcatgacaat tggctctcggc aataatttgg gggatgtaac atcaacgaat 120  
 cagacaacaa aagcaaggga atacacatgg nactaaatca gtgtgnggaa aaatatccca 180  
 aacaggcaaa gcacaacatg gamtagatat atgcacattn atggaccctg naggcakkac 240  
 tcacaaacat actacctggg aagcamctgg acctttaagg gatgaggtag attcaacaaa 300  
 cagggcancg tatmttccac tgggtagca ttccagcctt aaaaataang aaatcttgaa 360  
 aagnactaca ataaggacaa atctcgaaca cattctgtta agtaaaacaa gacaagccaa 420  
 aaagggaaaa ctgtataatt acacctatgt aaaatattta gtcaaactca aagaaaccaa 480  
 gtgttgtagt ctgagcaggg caccaagatg naaacagtct ctcatagnct gagatangca 540  
 tc 542

<210> 1423  
 <211> 252  
 <212> DNA  
 <213> Homo sapiens

<400> 1423  
 ttaatgccaa atggcaaagt tgcattccgtg gaaatggta aatatcatca ctgtcgggat 60  
 gaacccctgc acgcccctcta tgacaatgtg gagaaactct ttccaggttt tgagatagaa 120  
 actgtgaaga acaacctcag gatccttttt aataatgctg taaagaaacg tttgatgaca 180  
 gacagaagga ttggctgcct tttatcaggg ggcttgact ccagcttggg tgctgccact 240  
 ctgttgaagc ag 252

<210> 1424  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<400> 1424  
 tttccactct gcacattgta gaggggaacac tctgtaggcc catgggtccc ttactagaga 60  
 ggttgagtga atttgccttc agttaacatg ggaccttctg tttagcttcc tcttgcttcc 120  
 caaagatttt aagcattttg taaatgtata aactcacctc tggtaacagt ggcccagacg 180  
 ctgctttgtg ctaaaagcat gggaaatgta aaggcagtct ttctctggga aatggatgct 240  
 attctattct gctgccctca cctgttctct agg 273

<210> 1425  
 <211> 618  
 <212> DNA  
 <213> Homo sapiens

<400> 1425  
 aaaaaccttg tatagcaaaa taacttaaaa ccccttgtga tatcatctta ccagtttatt 60  
 tggtaaaaaac aaacagttat ttggtatttg tcagaattct tcagtgcctg ctattacagc 120  
 tattttccaa ttactaattt gattatactc actcaaggca gtgcaagatc ttgaagtact 180  
 ttttagcagt taagtaatat tgaattgtat tgaatagttt acatagttta ttctagtctt 240  
 tgaaaattac tgaacatgga caatgtgcat gtcattgaca tctgccttag aacttctggg 300  
 acaatcctga ttcgagagat tctatcccat tatttacata taccaaaaat actttgttaa 360  
 tttaatgtgt tggcttccca actcctgaac acgacacaat ttattatta gattttgtat 420

```
<210> 1426
<211> 565
<212> DNA
<213> Homo sapiens
```

```
<210> 1427
<211> 144
<212> DNA
<213> Homo sapiens
```

```
<210> 1428
<211> 214
<212> DNA
<213> Homo sapiens
```

```
<210> 1429
<211> 253
<212> DNA
<213> Homo sapiens
```

<400> 1429

```

ccactagtcc antttngtgg aattctgaag cettaattgc ttatatccat gtttctagtg 60
aatgagagg gtataacaaa aaagagaaca ggaggaaagc ttcgctgtgc ctgaggaaat 120
aatctagtca aggcagcaag tctggatagt gctatagaga tgagatacct gagcagttcc 180
agaggaagag gtggagatca gaggccagtt ttcagtgaac actgtaaaga aaagccagat 240
gatgtgtcct gga

```

<210> 1430

<211> 232

<212> DNA

<213> Homo sapiens

<400> 1430

```

aaatthttact agtgttactt aatgttatatt ctaaaaagag aatgcagtaa ctaatgccct 60
aatgthttga tctctgtttg tcattacttt ttcaaaaatta tttttttctg taaagtataa 120
tatataaaac ttcttgctta aattgaattt ctatattagt ggthtaattgc agthttattaa 180
agggatcatt atcagtaatt tcatagcaac tgttctagtg ttttgthtt tt 232

```

<210> 1431

<211> 734

<212> DNA

<213> Homo sapiens

<400> 1431

```

cattatacaa cactatattg ccaggtcaaa gagggcaggg acgtaaatgt aactataaat 60
gcmaatgtat cccaaagaga taaaacaaat tccatttaca gcatgaagggt ttacaaatgt 120
acacctgtac aaccaaggaa agcatcacta ctaaaattagc aaggctttta taataaacat 180
tgaaasaaga tttcctttca aagtgtaaac ttacatctat tactacacac acaatgcata 240
tatttataga aagcaaaaag agctatctga atatgtaatc atgcttaaat gctgagctat 300
caaattcact tttcagtggc cctttttcat ctctatctgg ttccctacttt ctgcctctat 360
gaaaaagcaa aataaagctc aacacttcct caacatgtct gtaattctat aagcaaaaaca 420
aaatacaaat ttccactctt tctcattgca aaccaaactg aaaagttaat aagtgactta 480
acttttcatt tagtgactt aattggaagt gtcacatga ttttgatttt aactcttaca 540
acaattacat atgtaagtat atacaatatt tctgtacatt gccagagaca ttttagggca 600
gtaattgtat taaaaccaca tctactgtaa ataatgttag gttcttttca tctcaaacca 660
ctttattctt gcctacttac tegtattttg catgatagtt tgtgaattat caaaatacaa 720
cttaactctt taaa

```

<210> 1432

<211> 542

<212> DNA

<213> Homo sapiens

<400> 1432

```

tttaagaaaag agcctttgag aaacatgcat acttttctct tttctcctat attcaatact 60
catatagcct aaaagatgga aactgggttca agaattttaa tgacttggtc cctaaaaagt 120
taatctcctc acctttgtga aatatatcaa gtgctttcta taaataagggt caggaaatgc 180
taacttcata agcatagtcc tagtcattaa aataatttga tcatcttcta aaatttaagt 240
atgatagttaa cacagtaata tggaaaatct caatatactt aacacttcct aaacagcaca 300
atgaaatggt gttcaaggct tgaattaatt tgctacagga cctaagcaag tctgtttgct 360
tatcttttgg ctttaaaaatt ctttaagtct aaaatggtga taattttaga ataaactgac 420
aatgtgggga acaaaacttaa attcacaac actaccata tgctcaaaaa ctctctggga 480
taattagttt cttcattgta actattgatg tactattatt tcatctttcc attagctcta 540
ct

```

<210> 1433  
 <211> 175  
 <212> DNA  
 <213> Homo sapiens

<400> 1433  
 tttaaattgat tcaaaaaaac ttgacacctg tcatgtaggc cacaaaatag tagcgaacta 60  
 tactaagtgg tatagcccac tgtggagtgt ggtctttttac tcttccaaat agcccaagtt 120  
 ggcaaaggtt acttaaaaac ctgcccccca aaaagctaac ttttggtaga ttttt 175

<210> 1434  
 <211> 90  
 <212> DNA  
 <213> Homo sapiens

<400> 1434  
 ttaatcacta ttgatggaag cttatatctc ttatgaatat atacatgtat gcatatatac 60  
 atctctgtat gaatcactca aagcaatttt 90

<210> 1435  
 <211> 153  
 <212> DNA  
 <213> Homo sapiens

<400> 1435  
 tttaaccttg tgctttgaag gttctaccat ttakaaagta aaaagccaac ccacagaatg 60  
 gaagaaaaga ggacagactc taacaagcgt tcacaaagat ggagagaaat tgtaaccctc 120  
 atatattgct ggtagaattg tagaaagatg cag 153

<210> 1436  
 <211> 483  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 36  
 <223> n = A,T,C or G

<400> 1436  
 tttttagttt aaagaagagt tttgccactt aracanggga gctwtgtctg gaaaatacac 60  
 tgagttgaaa cacttcatcc ttggaaggat tatataagat gaacagytgt gataaatgtg 120  
 tagattagag ggatgtgaat gggcagttag tccagtgcc tcatttaaga ggccaagatc 180  
 ctgattcaga ggaggcatcc tttgcccaga gctgcttagc taatctgacc aaatgttggg 240  
 aaaaatgtct cacctaacc cactattcctt aattatggat tttgtgaaaa acaatagaac 300  
 atgttaatga gtaatttata ttagtctgat gtattacaat tttttagctt taaattacag 360  
 ytttcttata atgttgaaat gttttagaat cctttgaatc taagtatttg tttcctaaat 420  
 gaaacatttg tacaacattt gatgttttta cttatgaaat attctcctcc cccaagaaaa 480  
 ttt 483

<210> 1437  
 <211> 171  
 <212> DNA  
 <213> Homo sapiens

<400> 1437

```

ttttgccacc tcaagaagcc atttttcttgt ctgttttctt ctttacctac ccctacaacc 60
tatgaacaaa taccataact taaaaattta ggtagtctac aactcctaca aattttaagt 120
tcagagacta cccaaagaac tgtggaagat gcagcaatat aaaagttttt t 171

```

<210> 1438

<211> 408

<212> DNA

<213> Homo sapiens

<400> 1438

```

tctgagtgga ggtaggctaa caacacattt tgactttstc ctcaaaggat agctttgaaa 60
aacaagtgta accaattggt acaccaaatt aaaatggcaa tattaatcg gtaacaaaac 120
gatccacatt ttatacaata ttgtatttcc aaacatacat aggtcatgaa aatcagagaa 180
cctaatatag caccgttgaa accattcatt atccttcacg tgtgtatgca attcagaatt 240
tcggcagaag acaacaaatg gaaaaatgcct ttctgttcta taaatcattt tggatttcaa 300
ttaaatcttt gccttagtaa aggttattct tatctcaaga tcaattagcc gtttttagct 360
ccaccgtttt ggaagtaaaa atgatgagct acatctactt ttttaattt 408

```

<210> 1439

<211> 168

<212> DNA

<213> Homo sapiens

<400> 1439

```

ttacacaaca gctataaacc tgaacacata tgctatcatc atgccataag actaaaacaa 60
ttatatattag cgacaagtag aaaggattaa atagtcaa atacaagaatga aaaacgcagt 120
acatagtgtc gcgaactcaa atcggcattt agatagatcc agtggtttt 168

```

<210> 1440

<211> 307

<212> DNA

<213> Homo sapiens

<400> 1440

```

tttcacatac gaagaaatca actgtgatta tgaagtgaca gccagctaaa tatgtcttgt 60
attttctctc ttcttttttt tgcctaactc atcctttact tccattcctg cttccatggt 120
aatgcaggct caaataaatt actaggatac aagattactt caagcctctt ttctgtggaa 180
ctcataatat gataagcatt tggtacaaga ttgcctgtag ttgtttaggg gacaaattat 240
attagggaaa gaaagtcttt ctttagttgg ttaaattttc tattataatt ggggtactaaa 300
tttattt 307

```

<210> 1441

<211> 684

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 600

<223> n = A,T,C or G

<400> 1441

```

ttaagttctg gagtggtcac ttctgagcct gaattccctc ccttgcaaaa tgggggaata 60
ccctcctcag aggggtccctg cgagggtgag gggagattca gcatggcagg tgtgctgggc 120
acggcagggc ctgggaaggg cagatccctt ccccatccct gccacaaaca acccaaacct 180
ttaaaggaga gcaatggcct tgtgtcaaaa acaaaaacaa aacaaaaccc tgtcctagga 240
gactggggcc ctaatttcta atagcaagcc tttatgagtc cctaacactc tactgggctg 300
agtatctcac acgccagagg ataacctgcc ttctgctcac caccaccccg tagtagttgt 360
cattgtgtcc atttcacaga tgaggcaaaag gctcagaaga gtcattgtgt aaaccagctt 420
ctagagccca tgcaggagct gcagggtgga gaatcacctc taggtgctct tcccatagaa 480
tcctcacctc ctgagtgtca ctcactcagc ttccaatggg tgtgtgacct ttgaccagct 540
ttcttctctc ctgggectca gtttcccacc tggacaaagt aagaggctctc ttggcttcan 600
gtaagttctt cctaaacttc tttttccttt tcatttgagc atcctcttca tttttgccac 660
ctctctgtca ttacaggct tttt                                     684

```

<210> 1442

<211> 166

<212> DNA

<213> Homo sapiens

<400> 1442

```

aaaaaatcag cccctaattt ctccatgttt acacttcaat ctgcaggctt cttaaagtga 60
cagtatccct taacctgcc aacagtgtcca cctccggcc cccgtcttgt aaaaagggga 120
ggagaattag ccaaacactg taagctttta agaagaacaa agtttt                                     166

```

<210> 1443

<211> 194

<212> DNA

<213> Homo sapiens

<400> 1443

```

tttgcctgt caaaagaaga gctaaagaca gttatataaa aattaagggtg ggctttcaga 60
ctggctaaca caacaacatt ccatgagtag atggtaattt atttttgttt atccatttcg 120
ttgggagcaa ggacaaaaat gtaaactctac accttgctta tcaaaattgc cgaaaaaaga 180
atgctctgcc tttt                                     194

```

<210> 1444

<211> 96

<212> DNA

<213> Homo sapiens

<400> 1444

```

gagagtcgag agtgggagaa gagcggagcg tgtgagcagt actgcggcct cctctcctct 60
cctaacctcg ctctcgcggc ctacctttac ccgccc                                     96

```

<210> 1445

<211> 365

<212> DNA

<213> Homo sapiens

<400> 1445

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gggatgagct gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc ttctatccca 60
gcgacatcgc cgtggagtgg gagagcaatg ggcagccgga gaacaactac aagaccacgc 120
ctcccgtgct ggactccgac ggctccttct tcctctacag caagctcacc gtggacagga 180
gcagggtggc gcagggggaa gtcttctcat gctccgtgat gcatgagggt ctgcacaacc 240
actacacgca gaagagcctc tcctgtctc cgggtaaatg agtgcgacgg ccggcaagcc 300

```

cccgctcccc gggctctcgc ggtcgcacga ggatgcttgg cacgtacccc gtgtacatac 360  
ttccc 365

<210> 1446  
<211> 386  
<212> DNA  
<213> Homo sapiens

<400> 1446  
tctggaaagt tcttgctcgg gtcccttcac ctccccgccc tttcttarag tgcagttctt 60  
agccctctag aaacgagttg gtgtctttcg tctcagtagc cccacccca ataagctgta 120  
gacattgggt tacagtgaac ctatgctatt ctcagccctt tgaaactctg cttctcctcc 180  
agggcccgat tcccaaacc catggcttcc ctcacactgt cttttctacc attttcatta 240  
tagaatgctt ccaatctttt gtgaattttt tattataaaa aatctatttg tatctatcct 300  
aaccagttcg gggatatatt aagatatatt tgtacataag agagaaagag agagaaaaat 360  
ttatagaagt tttgtacaaa tggttt 386

<210> 1447  
<211> 261  
<212> DNA  
<213> Homo sapiens

<400> 1447  
aaaattataa ctactcattc tttcttttagc cttagttaat ttgagcagaa gccacaacaa 60  
gcaaaccaca ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc 120  
cacactacta ccatctacag ttgtagggtt gtaatgtata attatgtaat gcagaaacta 180  
gctttgactt gtgtaacgat gcactgtcaa agtaagcaaa gtaagaattg aaattccaca 240  
ttcccagaat ttaacactca g 261

<210> 1448  
<211> 404  
<212> DNA  
<213> Homo sapiens

<400> 1448  
aaaaaaagga aaaagtttta ttacgaaact agtttgtata aaacagggtt atacatatatt 60  
ttgtaagttt gtaataaaac agtaagaaaa aaaaggcagt aatagaaatc tccaaaaggc 120  
aacctatcaa aaccaactgg ctgccacttt gagtttggac agtagctgca taaactttgt 180  
tcttcttgaa cagtatttaa taacatcatt aatacattaa caacatttct ataaagtaag 240  
acacattggg gctgaagtac aactgggtggc ctcttgatct cacctatgag gagagttctt 300  
tacaaaacca catagggaaa attgcagttg taagggtgaac tacacatcta aaatatgcag 360  
aggtaatagc attacatggt aaagtatcaa gatatacaca tttt 404

<210> 1449  
<211> 230  
<212> DNA  
<213> Homo sapiens

<400> 1449  
aaaagttcta gtggtagcgt aggagctttg caggaagttt gcaaaagtct ttaccaataa 60  
tatttagagc tagtctccaa ggcagcaaaa aaatgtttta atatttgcaa gcaacttttg 120  
tacagtattt atcgagataa acatggcaat caaaatgtcc attgtttata agctgagaat 180  
ttgccaatat ttttcaagga gargcttctt gctgaatttt gattctgcag 230



<210> 1450  
 <211> 194  
 <212> DNA  
 <213> Homo sapiens

<400> 1450  
 aaaaactcct tttggtttac ctggggatcc aattgatgta tatgtttata tactgggttc 60  
 ttgttttata tacctggctt ttactttatt aatatgagtt actgaagggtg atggagggtat 120  
 ttgaaaattt tacttccata ggacatactg catgtaagcc aagtcatgga gaatctgctg 180  
 catagctcta tttt 194

<210> 1451  
 <211> 106  
 <212> DNA  
 <213> Homo sapiens

<400> 1451  
 aaagatgaca aatactgggtt aattagcaat ttaagaccag agccaaatta tcccaagagc 60  
 atacattctt ttggttttcc taactttgtg aaaaaaattg atgcag 106

<210> 1452  
 <211> 349  
 <212> DNA  
 <213> Homo sapiens

<400> 1452  
 ctgcagatcc tgcggaacgt caccaccac gtttccgtga ccaagcagct cccaacctca 60  
 gaagcgtggt tgtctgctgt gagcgaggcg gggcgctctg gaataacaga ggcgcaagca 120  
 cgtgccatcg tgaacagcgc cttgaagctg tattcccaag ataagaccgg gatggtggac 180  
 tttgctctgg aatctggtgg tggcagcatc ttgagtactc gctgttctga aacttacgaa 240  
 accaaaacgg cgctgatgag tctgtttggg atcccgctgt ggtacttctc gcagtccccg 300  
 cgcgtggtca tccagcctga catttaccac ggtaactgct gggcattta 349

<210> 1453  
 <211> 302  
 <212> DNA  
 <213> Homo sapiens

<400> 1453  
 aaaaataatg tgcaagagca tcatgagaaa gaagaggggt gaagagataa tccagaggaa 60  
 catcaaagt aagagtatac actcaaagac aggtttaaga aagaccagtc agagaagtaa 120  
 agaaaaaat caagcaagaa taatgttgca aaaattaaca agaaagttgc aagcccagag 180  
 tggtttagcaa tgccaaacta ccatgagtaa gccacataaa acaagaactt tgggttcaac 240  
 tgctttaaca atcagacctt tagattcaca taacaggagt tacaaaatta agagcctctt 300  
 tt 302

<210> 1454  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<400> 1454  
 caagcgtaaa ccgcgggagc cgagcccagc taggaatgca gacctctga aaaccaagcc 60  
 gaggactgcg gggctcgggtg tccacgcaga gtgtcagctt cctctggtgc aaccagcaag 120

```
tcttccagta tgaatccac agaaaccaag gctgtaaaaa cagaacctga gaagaagtca 180
cagtcaacca agccaaaaag cctacccaag caggcatcag atacaggaag taacgatgct 240
cacaataaaa aagcagtttc cagatcag                                     268
```

```
<210> 1455
<211> 207
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 29
<223> n = A,T,C or G
```

```
<400> 1455
ctgtcgagag cagccctgcc caagawtgnc gggtaggggc tggtagccaac gggttcccaa 60
ggscctttcm actttkgaak ggctggartt cttgggaaac cmaaacsctg actacctgsc 120
ttttttcttg ggcatygacs tgcttcattt ccaaratga tggkgcaggt gaccttttcc 180
atcgtgagct aaaaaaagggt taggagg                                     207
```

```
<210> 1456
<211> 181
<212> DNA
<213> Homo sapiens
```

```
<400> 1456
aaattttctgt ctgctaaaat ctatcaaata cattaaggaa aagtcccaact tggcacatct 60
cccacaccag atgttaatta ttcatactgc atgactgagg attttgagg cagagagaga 120
ttcatctgca atatttgga caccaatgga ggtctacgtc aacacagaat ttatacagca 180
g                                     181
```

```
<210> 1457
<211> 309
<212> DNA
<213> Homo sapiens
```

```
<400> 1457
aaaaagwtca gagttgaaat gcctttcaac cattkccttc tgtggtcatt tttcttgctg 60
cctttttcac ccaagattca gcagtcagat gtttactgca cacctattac ctattatttg 120
ctgttcttgc atggttcaaa ccaccattct gtagccaccc atcctttgcc ttatctaaca 180
aacatttttc caggaagggt gaaaaggaag tgttgctctc attgtgtgac tcagtgtctg 240
tgtccatccc atggaaacat gggcacaatc aagtatttgt ccagcctatt gcaggccttt 300
cctgacttt                                     309
```

```
<210> 1458
<211> 117
<212> DNA
<213> Homo sapiens
```

```
<400> 1458
aaagactatt gagaaatagg aaggtattga gagattattg ggtttcatca kagcagaactt 60
aagtagcctg gttgatttta gatttgtcac agcaaaatca tgcttgatg ctcgagg 117
```

```
<210> 1459
```

<211> 575  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 371, 379, 428, 469, 498, 506  
 <223> n = A,T,C or G

<400> 1459  
 aaagaatgca taccagaaca ttataagca gtggagtgag kthtattaag aatagtacta 60  
 ctacaataaa cgctggctaa ataagaagt cattatgtga agcactatgg gtggtatatg 120  
 cttwgmca tactctkggt accttgaggy agatmacrca tgkgaaccaa cttcggcata 180  
 cattttcagt tgctgcgagg aatcatgtgt tttaacgaaa tgcgtcagta tgaaaaactt 240  
 gaaaatattc atgaatgawg aacgcmttag gaaaaaata kstattctca tgcaattatg 300  
 tacagtctca ctgtgtarat ctcaaggcaa ggtttgccct ctgtaaacca gatcaagggtg 360  
 ctatgagaga ncgcytgnc ttattgcatt tcttttctcc tmtctgcgcca gcattatatt 420  
 gctctagnct ttatttttgt gtgcacactg acatgccatt aaaratgang ractatctca 480  
 catgtagaaa argaaagnmc ttggankcta cctcaggtcg ctaccacgct aagggygaat 540  
 tctgcaggat atccatcaca ctggcggcgc gattg 575

<210> 1460  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<400> 1460  
 ctgggggttc cttccttcac gttgagaacc tggagcagag agtctaccaa cttagaagaat 60  
 attagaaaga gttcagcaaa cagagtgcgc tgaagtctaa tcctagaagt aaatccattc 120  
 ctacaagtca tcagcatcac ttgggagctt gttagaaagg caaattcttg gttcagccta 180  
 acacctacta aatcagaaac tctgggggag gagcgcagca atctgtactt tcacaagccc 240  
 tgcagggtgat tctgagcctg taaaatttga gaaccagagc tgtccccag gagataaatt 300  
 aacttctact tttttttgag ctactgcatt ttgggatctt attgttttat cagcttaaca 360  
 tgcacacctga tatgattact caggatgtt tcaaccaatg ttggttaatg tattatcccc 420  
 aggaacttat tactagagga gcag 444

<210> 1461  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<400> 1461  
 ctgcaaccct gggactgacc gggaggctct gattatttac ccmaccacag gtaggttgtg 60  
 ttctgaatct cagggttcaca ggttaagggt cagcatcctc atcctccacg gggttggagt 120  
 tggtgctggt gatgaagggt ttgggtggct ctgcatagac tgtgatcgct gtgactgtgg 180  
 tcctattgag gccactggct gagttatttg cctggcaggt atagagtccg ctgttcttct 240  
 cagtgatgtt ggagataaag agctcttgct tgtgttgctg gatgttccca tcaatcagcc 300  
 aagaatactg tgcagggtgg tttagaggct catggcagga gaggtgagg ttcaccctg 360  
 gacggtaata ggtgtatgag ggggaaatgg tgggkctc ygggccatag aggacattca 420  
 ggatgactgr gtcgctgtgs tyaractta atkcgttctg gattccacac tcatagggtc 480  
 ctacatcatt ccttgtgaca ytgartagag tgagggtcct gttgtcattg gacagm 536

<210> 1462  
 <211> 409

<212> DNA  
<213> Homo sapiens

<400> 1462  
ctgakagacc aggagaagtt ccagatgcag agactgtgat gctcttgact atggaattat 60  
tgcggccagt agccaagtta gagacaaaac aggcataagg cccgttatta ttggcggtga 120  
ttttggcgat aaagagaact tgtgtgtgtt gctgcggtat cccattgata cgccaagaat 180  
actgcgggga tgggttagag gccgagtggc aggagagggt gaggttcgct cccgaaaggt 240  
aagacgagtc tgggggggaa atgatggggg tgtccggccc atagaggaca tccagggtga 300  
ctgggtcact gcggtttgca ctactgagt tctggattcc acatacatag gctcttgctg 360  
catttcttgt gacattgaat agagtgaggg tectgttgcc attggacag 409

<210> 1463  
<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 1463  
ccttcagcct ggatccttta tattaagatc aatgaggacc atttctggaa gatgtctggc 60  
atggtacaga ctgtctgagg ccractgaac acaggccctt accctgattt tatcagtga 120  
aagctatggg actagtttcc ttacctctaa aatggagaga ataataagaat cttccgtcta 180  
agactkctgt gagcataagc cgagaaaatg gaggtaaact gcttagccca atacttggtat 240  
tatcgtaaatt attcagtaaa actagccacc gttgttattg taattattat ttgtattttt 300  
attatacatt tcatggaaac ttaaaagtta gtgataatca cctcattttc agttgccttg 360  
ctttcttcct gtaaattttta ttctctctta tcttgtctac tgtctttaag cattgccagt 420  
ttagtataat tattttcccc tatectctat aaaatcatat acaggatgga ttgtttgatc 480  
tcagacatgt tcaactgagtt tt 502

<210> 1464  
<211> 294  
<212> DNA  
<213> Homo sapiens

<400> 1464  
ggcggtcgg actgagcagg actttcctta tcccagttga ttgtgcagaa tacaactgcct 60  
gtcgtttgtc ttctattcac catggcttct tctgatatcc aggtgaaaga actggagaag 120  
cgtgcctcag gccaggcttt tgagctgatt ctacgccctc ggtcaaaaga atctgttcca 180  
gaattcccc tttccctctc aaagaagaag gatctttccc tggaggaaat tcagaagaaa 240  
ttagaagctg cagaagaaag acgcaagtc catgaagctg aggtcttgaa gcag 294

<210> 1465  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 1465  
gtgcaggtct tcagccgtga cccggtaccc cagctctaag ggaggtggca gcatcaaagg 60  
ctccccctgc ctgcgtggca gcaggggaat cttgcgtcta cggggcctag agtcatggga 120  
tgtgggggag ccacccctgg gggcaagtgt ctgccctggt gctgtacctg cttgttttc 180  
acagcggtga cccgaagaga cagcctgagg tccgtcctca ctactgtgt ttgaggaaact 240  
gtgggccag 249

<210> 1466  
<211> 203

<212> DNA  
<213> Homo sapiens

<400> 1466  
cctcagacac cttttaattg cttaggagaa accattgtct ctgactgcag gtttgaataa 60  
gttgaagacc agagaaaagt acacactggg ctacaaagga atttggagat agccaaggaa 120  
caggatttcc cctagcaagc taccttctgt tcaaatcatg aaaaaagact atttcccctt 180  
agaataggga agcttgctat ttt 203

<210> 1467  
<211> 223  
<212> DNA  
<213> Homo sapiens

<400> 1467  
ctgtcagaac aggaacgacc tgggttatgg aagcccagaa agggaggagg acttcttttg 60  
gtcccagtga aagatgcttc cagaatctgt agccttactt atttgcttgg atctcactgg 120  
aataacttgg tggtgaggtc accggttctg gggtgatcac tgggtttgct gcatagatgt 180  
ttggatagat gacactcaca ttgcttgatt gacagcagac caa 223

<210> 1468  
<211> 177  
<212> DNA  
<213> Homo sapiens

<400> 1468  
ctgcattatg tgtgttttaga acgagaagtt gtttgtacag tatttttcta ttgaccgctt 60  
cogtcttgcc tgaaacctgg gcattctttc caatagacag aaaatcagag agtcaaactt 120  
gatgcgcaat gagttgttct gagaccagta atccacggtg ctgcaatttg ggttttt 177

<210> 1469  
<211> 185  
<212> DNA  
<213> Homo sapiens

<400> 1469  
ctgaagctga gaagtagcct atctatggar gagacttttg tttgtgttta attagggcta 60  
tgagagattt cagggtgagaa gttaaacctg agacagagag caagtaagct gtccctttta 120  
actgtttttc tttggtcttt agtcaccag ttgcacactg gcattttctt gctgcaagct 180  
ttttt 185

<210> 1470  
<211> 482  
<212> DNA  
<213> Homo sapiens

<400> 1470  
ctgaccagga gggacggttc tgtggacgag gacttcgtag ctgaggagcc agatttcttt 60  
ttggtccctt cctcctggaa tggaatcgtg gcgctactgt ggagatctga gttgatgtag 120  
cacctgcttc ctcgatgta gtccgcaccc cggaccagat gccgctcggc cgtgggtctg 180  
gagaaccggt atgggggaga ggagctctct tcaatgatcg gaggaatccg ctcgttactg 240  
aaataaccggc aaagggcatc ctcccttttc ctgccatgac ctcgaggtct ggcaaaaggg 300  
tcacaatcc ccatccagtt cccatcagca ggcattggaca aaggccgtgg cttgccttca 360  
gagggacgag aaagaaggtg acaagtttga tgagtctcgg aacttttagt aaccgttccc 420

```

tttatgtata acttagacct cacaatacca caccactta gacagaagca ataacaaatt 480
tt                                                    482

```

```

<210> 1471
<211> 257
<212> DNA
<213> Homo sapiens

```

```

<400> 1471
tgtgtgaact tagactkwtc aattcaacat ttttaacrta tkaaatacta ttgtgaattc 60
aatgaagtgt tcttatgcc aacttttaa cctattccct tactcamgga tgtaggyaaa 120
rgatggtaac aatacactat tkggcaagat aatgtmctga catmtytagc aatstttttt 180
gmcagtggct tkcaactgma mwkaaskkam mkaatattgy tkctgtwsgt arattattat 240
tctgwywyt aatcattt                                     257

```

```

<210> 1472
<211> 342
<212> DNA
<213> Homo sapiens

```

```

<400> 1472
cttttgcgag cctctgccgc agcagctccg ttttcacgcg catctcgttt ttgtgtgtgt 60
gtttttgttt tgtttttgtt tttgtttttt tgtttcagag aattggaagc taaagctacc 120
aaagacgtag aaagaaatct tagcaggtaa gatgggcgag ctttccgtct cccgccccac 180
gataatcgta tattttctact ccgattcgcc ctttctgggt tgagaagttc ccccggtgaca 240
ttttcttccg caccgggaga gcagacattc gggagaagcg gcctggggga atactggagg 300
gattgcgggg agatgcgtaa ttacgcgtgt gtttctttct tt                                     342

```

```

<210> 1473
<211> 526
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 435, 442, 454, 462, 476, 524
<223> n = A,T,C or G

```

```

<400> 1473
ctgctacatg tcttcacagc ccaggaattc aaggcccagg tggcagcagg aagaaacagt 60
ggaaaagcaa ggggaagaga aaagagaaaa aggaggggga aagtctgcat aactgtcata 120
acctctgctt ctctgctct gtaacaaacc cacaaccagg aagagtcatg gtctggaaca 180
atcatgggac cccaaacgcc tgtaggtttt ttaccaccaa acatcaccca tggctgctct 240
aagctgtcat ttgtttccca cagttaccta gcacacgga tgcccaattt atggcccagg 300
aaggctgacc caggctaagg gcagttctac tccacagcca tgcaatggac agtctgaatg 360
tttcctaccc cagaccttta ctgacctcta ctatttcttc ctctgatata aaagaaaaac 420
acttttaatt ttctnctgca tntacatct cctnctaaaa antttggcct aattgncatc 480
aaaaccttgt aggaatctga aattttgggt cttctgaatc ttancc                                     526

```

```

<210> 1474
<211> 187
<212> DNA
<213> Homo sapiens

```

```

<400> 1474
aaacttgttt gctgtgaaca attgtcgaaa agagtcttcc aattaatgct ttttatatct 60
aggctacctg ttggtttagat tcaaggcccc gagctgttac cattcacaat aaaagcttaa 120
acacattgtc caaaaaaaaa aaaaaaaaaa gccccykccc sgggggsckk ttmaaggggr 180
aawtccc                                     187

```

```

<210> 1475
<211> 474
<212> DNA
<213> Homo sapiens

```

```

<400> 1475
ccattctctt tatctcaaac cgaagaaaga tatgatgcag gcagtagttt tttcttagtg 60
cctcatagta tctaatagca gaaagtgagc cgcatagcgg agcacattag tttttatgta 120
tctacaggac agaagggcca cttagctgat ggctccaggc ttcctttgat ataatactaat 180
gttcctatga cctcaaagac tgaacacatt tccctaagtg cttcacttag caccagaggag 240
caacttggag tcttcgcaga ataaaatcca ttattttaat gtagattaat acatgggtac 300
ttatatctat gcaggtctat aatagtttat tcctatgtaa gctttattaa aagcattggg 360
atgttttaca taaaaagtta atgtgaatat tagaaaaaaa ggacaatat aaagcagttt 420
gtagaatttg tcccccccc aaaatgaatg aaatacacia tagatgtaca aaaa          474

```

```

<210> 1476
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 1476
ccttggggac agggcaggag gacgcacacc tcatggacag ggcggccagg gctgagatac 60
cagcggggtg ggtattcccc gcgggtgctt acctccaaca gtgtcttgct agcaaaggcc 120
atgatgcctt caaagatgat gacgtttgca ccatacagt ttttctgtga agaaacccag 180
gagttgcgga gacctggctc tgtgcctgca gcccccgag gccccctctg cagggccctg 240
gcctaccacg tccttcttcc ggctgtgcgt ggtgaagtca taaatgggca ccttgacact 300
cttccccctg ttcagcttct tgagggtgga aatgatgaag gtcgaagtca aaaggcatct 360
ggggtgggtc gaaagtttga aagtttgctt gtggtgccgg g          401

```

```

<210> 1477
<211> 753
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> 59, 75, 152, 194, 200, 203, 205, 674, 682, 709, 737, 746
<223> n = A,T,C or G

```

```

<400> 1477
cagcatgctt aaaaagttgg aggaattgga acagaaatac acctwmcaac ctkrmcctnt 60
taccaaaaac aaacnagtgg tatkggamcc sacctttmrk ctttttcmac macttatttc 120
aaagytsrtt kgtggkgaaa agmcacycyk snatscywc rcacccttgw aggcyygttg 180
acttrataac akknotgctn atnwntgtga ggggtgatay tgatgrtgaa attgcactta 240
gctgggttat aattkgaaag tcaaagtctt atttgataaa gatgtgaatg agagaaatac 300
agtaaaagga tttaggaagt tcaacatttt gggcacgcac acaaaagtga tgaacatgga 360
ggagtccacc aatggcagtc tggcggctga atttcggcac ctgcaattga aagaacagaa 420
aaatgctggc accagaacga atgagggtcc tctcatcgct actgaagagc ttcactccct 480

```

```
<210> 1478
<211> 421
<212> DNA
<213> Homo sapiens
```

```

<400> 1478
aaacctatac tcacttttccc aaattgaatc actgctcaca ctgctgatga tttagagtgc 60
tgtccggttg agatcccacc cgaacgtctt atctaatacat gaaactccct agttccttca 120
tgtaacttcc ctgaaaaaatc taagtgtttc ataaatttga gagtctgtga cccacttacc 180
ttgcatctca caggtagaca gtatataact aacaaccaa gactacatat tgtaactgac 240
acacacgtta taatcattta tcatatatac acatacatgc atacactctc aaagcaaata 300
atTTTTTcaCT tcaaaacagt attgacttgt ataccttgta atttgaaata ttttctttgt 360
taaaatagaa tggatatcaat aaatagacca ttaaccaana aaaaaaaaaga aaaaaaaaaa 420
a
421

```

```
<400> 1479
ggaaatatat aataaaaatg ttaaccagaa ggtaaacttg agtgtaattg tcagacagac 60
acacttttcc accagtgtat ttgaatttta gaccagtgac cctgttttgt ggcatctatg 120
caaaacattgc tgagggctttt gttcatctgg tcactgtgtc caaatctcag tcatgtttgt 180
agcaagattt tggaagcatt catatttcct tttt 214
```

<400> 1480						
ggaggccgct	tacgtaaagc	ccaggggaca	ttcaacagcc	cctactacc	aggccaactac	60
ccaccaaca	ttgactgcac	atggaacatt	gaggtgccca	acaaccagca	tgtgaagggtg	120
cgcttcaaat	tctttctacct	gctggagccc	ggcgtgcctg	cgggcacctg	ccccaggac	180
tacgtggaga	tcaatgggga	gaaatactgc	ggagagaggt	cccagttcgt	cgtcaccagc	240
aacagcaaca	agatcacagt	tcgcttccac	tcagatcagt	cctacaccga	caccggettc	300
ttagctgaat	acctctccta	cgactccagt	gacccatgcc	cggggcagtt	cacgtgcgcg	360
acggggcgg	gtatccggaa	ggagctgcgc	tgtgatggct	gggccgactg	caccgaccac	420
agcgatgagc	tcaa					434

$\langle 210 \rangle$	1481
$\langle 211 \rangle$	131



<212> DNA  
<213> Homo sapiens

<400> 1481  
aaaatcccca taaatctttt ctgtcctgag gtagttgcaa aataaatcat aacttggata 60  
tcaactagag ctgaggcttt gactttttac tcattaaaac tagttgttac aggaactacc 120  
tttagatatt t 131

<210> 1482  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 1482  
tgctcgctcc tcagaggctg aaaacatgag aagctaggtg tggtgaaaacc aaagcagctt 60  
tattgttcaa atgctaaaga cgggaggatg gactggctca agccttaaag aaaccatctc 120  
gactttttga actcagtga cgggtttaag gaaaacgtgg gaaatatgca aagggtggtgc 180  
aggagggtgc aggtctgtgt gtcttattcc catggatata ttgagtaatc gcttgtccag 240  
aggtgggggt tgtgtcatcc tgaattcaac ccagcaatgg taggggtactg ttcataactc 300  
accctaagcc agaagattcc tcag 324

<210> 1483  
<211> 393  
<212> DNA  
<213> Homo sapiens

<400> 1483  
atgtttaatg aatgatacag gatacatccc tgttggaagc ttgcaaaaaga cacatacact 60  
gtggtacata ttgattttaa tagaagttgt ttatcaggct atatatatat ttgcccaaac 120  
atgcaccaca ggataaaaata actattttaca taacataggg tatttaattg acatagacta 180  
tcagctttgc tgagagcaga agatggcaaa gcaatactgc agcagaaaag ggaacaacta 240  
ttctaaagca atacttttaga tatatttttc tagaatggat ttatttagatt acttttttga 300  
aagcatttga cctaaattaa atatagagct ctgaaactta gaataaaaatt tgcacttgct 360  
gaaacagaat actttgcata aaaataatcc ttt 393

<210> 1484  
<211> 323  
<212> DNA  
<213> Homo sapiens

<400> 1484  
tttagatcag aaagtttgag gtcttcatca gcagacactc gtgcttctat ttttcttgtt 60  
ttatcgaaca gttctgaaac tttagaaaaa aacttgcata tatctgtaga atcctgagtt 120  
cctaaagcat ataataga accaattcta ttgtaatcat ctgcagcact tttgtgggat 180  
cttgtcattc tatcagattt agcagatgca tccttaactc gggttatgata ttccaaaaga 240  
aatgttcggt cgtgctcaaa gaaatcatct acatccttta ctcttgaaac gattactcca 300  
tctgctgatt taaccatggt ttt 323

<210> 1485  
<211> 405  
<212> DNA  
<213> Homo sapiens

<400> 1485

```
<210> 1486
<211> 230
<212> DNA
<213> Homo sapiens
```

```
<210> 1487
<211> 273
<212> DNA
<213> Homo sapiens
```

```
<210> 1488
<211> 452
<212> DNA
<213> Homo sapiens
```

```
<210> 1489
<211> 653
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 556, 562, 568, 573, 589, 592, 632, 637, 645
```

<223> n = A,T,C or G

<400> 1489

```
cctgctcttc tcttcaaagc acttagtaca cagggttaca ggtgctacca cttggattcc 60
ccagagcatg gaagtctgat cccagggtga acatatttct tctgaaaatg agcatcttgg 120
ttctatagat tcttatcttg ctcacaggac ttgctccaaa actgaatttt cagaagcagc 180
atgataggga aagagatatt caactctgac agacaaggta gatcgaagca cccacactaa 240
tttctttcag gtgccccatg aggaagactg catcatgtca cttccactca cttggggaga 300
ttctaggact gagacacaaa gttccccag agtttctgct aatggaaggg gaaacagggtg 360
gtttggaatg gaaagggtga accagggtcca caaaatgtgc tccctctgct caagactgac 420
tttggtcttc ccagggtcccc acttgacttt catataagct gagatgacct attacgggaa 480
aaattaggga acacctaata aaaccaactt tcaaaaactc ctatttatca tggatgtgcc 540
acgatcgaga gaatcnaaca cnaactgnct gtnagagagg ccttcattnt gnctcatctt 600
gagctaaaaat cctgrcttgg gatgccagaa ancatgnccc tcttntcggg ttg 653
```

<210> 1490

<211> 363

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 347

<223> n = A,T,C or G

<400> 1490

```
taacctgaca aaataaaaact tagtaaaatc takaactgtt tcttggccta cttgagagga 60
acttccatat ttccacagcc atctccgaaa gcagcagttg ctgtaaaatta actgagactt 120
ggaaatggtg cagactgtct tggtagagct gttcttatag cacaatttta tctggaaaat 180
aaacttgtaa atgcgtgctg tatattaata catgtgtgcc catatttatt tttattatct 240
cctgccagtc tttgctcaat gggagatgac agaccaactt ctcaacgtga tttccccatt 300
tcattgaatg agatttatat gccacttatg aaaaaaata ctgctgngaa agaaatgtac 360
ttt 363
```

<210> 1491

<211> 163

<212> DNA

<213> Homo sapiens

<400> 1491

```
taatcagccc ctaattttctc catgtttaca cttcaatctg caggcttctt aaagtgacag 60
tatcccttaa cctgccacca gtgtccaccc tccggccccc gtcttgtaaa aaggggagga 120
gaattagcca aacactgtaa gcttttaaga aaaacaaagt ttt 163
```

<210> 1492

<211> 184

<212> DNA

<213> Homo sapiens

<400> 1492

```
yattccccag gggaaaaaatt gaaagtcaaa ctattcacca agagaatgca ttgtctttgc 60
aaatgagcct aagaatcaga ctttttataa atacatgttc aagtttcttg tggttctaaa 120
tggacactga gaactgaaac tgtctacacc aagtttacaa tctatattaa ctatcattwt 180
acag 184
```

<210> 1493  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 39  
 <223> n = A,T,C or G

<400> 1493  
 aggtaawttg tgatatttag tgcacattta cgtgtaggnc crtcttkaat ggtaaagaca 60  
 gatacaagcc tatggcacac ttctccaaag caagctatac ttgagagcca attcccaaatt 120  
 aagacagcag agatctgatt aaatgcaact gtgcaaacat tcaacagaca tgttgaatgt 180  
 aagacaaatt atgattactg ataatatgca aatgtggtct ataaatttat gaatgtgact 240  
 tccaagggga atatggtatg gaagccatt ttt 273

<210> 1494  
 <211> 343  
 <212> DNA  
 <213> Homo sapiens

<400> 1494  
 ttggaaagcc tatcactttc tctcttcatt ctccagcccc cacaccaagc acacagagct 60  
 tttcagtgct ttactcttaa tggagaacat aaccagggat tatcaggtat tccaacatga 120  
 aaaagaaagt ccaatagaaa caagcaggat aatcaaacca ggaggaagca gagactatat 180  
 agagaaagaa aaaaagacac atgggaataa cggcaataat actgacaata cacctcacca 240  
 taaacttatc agaatgaatt tgttggagaa atatatggag gggaggtact tgtgtgtgtg 300  
 cacaggcact catgtacacg tgtgtatgtg tatgtttttt taa 343

<210> 1495  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<400> 1495  
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 aacttcacgg tgcgagtcac ttgtctggca atgaggtgtg tgcacttctg tgcagactcc 120  
 gcaacctctc caccaagaat gtagagcttc ttaataact gttgaacctg gacaggctcg 180  
 aatccagtga aaagcacaaa aggggtcaat tctggagtta gctttttagt gggaggtggt 240  
 acgtcttcaa ttctggctct tttggaagaa ggctggacat tagctacttc attctgtttc 300  
 agtttgggag gtagtcttat actcatcaac aactctgcag acacttttaa gggaactctc 360  
 caagcatcta aaagattt 378

<210> 1496  
 <211> 181  
 <212> DNA  
 <213> Homo sapiens

<400> 1496  
 tggagaagga agttttcctg aagagccaga atccttgcta agtcatttag atccaactga 60  
 ccatctttat ttctgtcaaa aatcttcac atgggtgccg tgtattcttc cagtttagcc 120  
 tcagaaatgg cctttttgtg gtgaagaaag aggtctcgga ggaagttgcg gagctcagca 180

g

181

<210> 1497  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

<400> 1497  
 tggaaagctga tccaccttga gatcaagccg gccatccgga accagatcat ccgcgagctg 60  
 caggctcctgc acgaatgcaa ctgcgccgtac atcgtgggct tctacggggc cttctacagt 120  
 gacgggggaga tcagcatttg catggaacac atggacggcg gctccctgga ccagggtgctg 180  
 aaagaggcca agaggattcc cgaggagatc ctggggaaaag tcagcatcgc gggtctcccg 240  
 ggcttgccgt acctccgaga gaagcaccag atcatgcacc gagatgtgaa gccctccaac 300  
 atcctcgtga actctagagg ggagatcaag ctgtgtgact tcggggtgag cggccagctc 360  
 atcgactcca tgg 373

<210> 1498  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

<400> 1498  
 gctcttgtag tgcttttctt ttaagggaga tgtagtaaaa gggaaaatgt agctcttagt 60  
 ttacacttca aagatgtggg ggtctttcag agaactaaga ataacagttt tatgtgcaga 120  
 gagagtttgc cagatctgaa gcatatacct cattgactag gctgttactt tgggataggt 180  
 tgcagtagca gccacagcca gcagatagag gaaaagacac acataaactc gcttctgagc 240  
 gtccacttct gcactctctg ctctgctgtt actcagcccc tgagtctgac tcatctctgc 300  
 acaacctctc tgtgccatga agataagtct tccatgg 337

<210> 1499  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<400> 1499  
 catgcggagg gacttttagca tggctgataa ggtccttcct accattccaa aagaacagag 60  
 gaccagagtt gcacactttt tggaaaggca gggcttcaag cagcaagctc ttacagtatc 120  
 cacagatcct gagcatcggt ttgagcttgc tcttcagctt ggagagttaa aaattgcata 180  
 ccagtttagca gtggaagcag agtcagaaca gaagtggaaa caacttgctg aacttgccat 240  
 tagtaaagtgt cagtttggcc tagcccagga gtgcctgcat catgcacagg attatggggg 300  
 cctgctgctt ttgg 314

<210> 1500  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<400> 1500  
 cctgaaacct ggtgggaaga tgattgaaag tgtttttagat tcaacagatt gactatgtat 60  
 gacttatcta ttaaaatgaa gaacttccat ggttttaatag aatgaatgct gtattcaaca 120  
 aggtcttcca tcttcttat aaatcttaag actgtgttta agctttcttt cacttttact 180  
 ctatcccttg gaagttaatt ggggaataaaa agatttatca atttagtcac tataatttaa 240  
 ggccaggcat ctgcttgga atacaataac cacaattaat acttagagaa aattgtttca 300  
 acagattaac tctgctatct t 321

<210> 1501  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 1501  
 ctgctctggg gaaaatggtg gaggagccag gcagagagga ggagcagagt gctggcagtg 60  
 gaaagcctag ctgagactgg agatgcccc ctgcccagg catctcagcg aggatgcttc 120  
 tocatatggg tgagccagcc tagagacaga acaggggaag ccagcgggtg ctgcagcgac 180  
 ccaccgcccc agaacatctg catcttacat caacaaaggt ttattttctca ttaatatcca 240  
 ttgtgggttg gctgccactc taaccctcgt tgccctctcca tctgggtctt ggggtggcaga 300  
 gcagcctgtc tctgtggcag aggaaaagag agcactgggc agcacaggct gactctcaaa 360  
 ttttcgcgct gaaggtgacc caagtcactg ctcacatttc attgactaaa gcaaaatcct 420  
 atgcctgtgg gtgagttgag caacgtgatg aggtgttaac ttcttacagg gaggggctca 480  
 aatattgccc aacagtggta tggcccactg cctgggggtg tcggtggaag gctggcagga 540  
 caagggagac cacgtgg 557

<210> 1502  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 1502  
 cctgcgggga ggcgcgctgc aagaacctgc ccggtccta ctctgcctc tgtgacgagg 60  
 gctttgcgta cagctcccag gagaaggctt gccgagatgt ggacgagtgt ctgcaggggc 120  
 gctgtgagca ggtctgcgtg aactccccag ggagctacac ctgccactgt gacgggctgt 180  
 ggggcctcaa gctgtcccag gacatggaca cctgtgagga catcttgccg tgcgtgccct 240  
 tcagcgtgg 249

<210> 1503  
 <211> 302  
 <212> DNA  
 <213> Homo sapiens

<400> 1503  
 ccaggacctc ttttgggcat ttcttcttaa gtggaatata caacagataa gggagttagg 60  
 gaggttaatac aggggaagcta ctctttccag ctccagaagga gttgatgaag cccatatatg 120  
 cattcaagaa gcccatggga tctcttagct gtggatagtg gctaattgtg tcatccagaa 180  
 tcgacactgt ggaccgcggc agcgttttcc tgtacagctc caaaaactct ggatagggat 240  
 ttacaggatc caatggccca tagataaaat gaatggggat agttacagag gcaagagctc 300  
 cc 302

<210> 1504  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

<400> 1504  
 ccacgatata aactatttgg ctttgtcagg tgttctctca aaaattggca gaagtgggtga 60  
 gaatccgtat gccccgctga atctcctggc tgacttttgc ggtgggtggc ttatgtgtgc 120  
 actgggcatt ataattggctc tttttgaccg cacacgcact ggcaagggtc aggtcattga 180  
 tgcaaatatg gtggaaggaa cagcatatct aagttctttt ctgtggaaaa ctccagaaatt 240  
 gagtctgtgg gaagcacctc gaggacagaa catgttggat ggtggagcac ctttctatac 300

```
<210> 1505
<211> 164
<212> DNA
<213> Homo sapiens
```

```
<210> 1506
<211> 189
<212> DNA
<213> Homo sapiens
```

```
<210> 1507
<211> 268
<212> DNA
<213> Homo sapiens
```

```
<210> 1508
<211> 159
<212> DNA
<213> Homo sapiens
```

```
<210> 1509
<211> 234
<212> DNA
<213> Homo sapiens
```

<400> 1509  
ccattgtgga gtacattatg aacacaatgt gottgykaag tttttctctt catttttcaga 60

```

cagcaattgt taagagtcac acacacgtcc cagacctaag cagcaactcc agtgaatggg 120
actcagacac actcacggga cagcacagaa cttgattctt ctttgtctgt tgcccaaaga 180
acctgttctt tgagtctgtt ccaggtgact tgtaatgata cctcttacgg tttt      234

```

<210> 1510

<211> 437

<212> DNA

<213> Homo sapiens

<400> 1510

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aaagcagtac atcttaatat gaagacagga atttctatga tgcttacgaa cattagactc 60
aacatttttg cagccccctt tcctgggtcta cattcacaca aacatgagac acagtcccaa 120
gggagaaaaca gatgctggag gagcatttag ggccagagtg gaggcacaga ggaagctggg 180
atTTTTcaac taccctctcc ttggttactc ctgggattcc cttaggattt cacggcacia 240
ccagcgaaga gtttgctcag attcacttcg gagtagccac ttcgggacaa gaattgctct 300
gctgtgttct tgagttttct gtagtctctg agaactttgg gggtaaaaaa ttgcttcttc 360
aatTTatctt tctcatgac ggtagtaagt ttctccagtg cacactccgc atcaaaaatg 420
taccggtaaa agcacag      437

```

<210> 1511

<211> 94

<212> DNA

<213> Homo sapiens

<400> 1511

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tgtgaagatg gagtctgagg ggggtgcaga tgactctgct gaggaggggg acctactgga 60
tgatgatgat aatgaagatc ggggggatga ccag      94

```

<210> 1512

<211> 493

<212> DNA

<213> Homo sapiens

<400> 1512

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aaaaatatgc attacaactg gagttttcca ctgagaataa gagtttggtt ttgacctcmc 60
ataaatccaa gggttcttga aaaaaaagtt aatataaatt ctcaataact atatcattaa 120
taccttatgt atacatagga gtttatataa tgcatttaag taacaaagaa tgtaacattt 180
attagccacc aagtaattag gagatagcat caattatatt gaaagaagat gagtttagat 240
gcttatagtc aaggagggtta attgaaattg aaagctattg taggtgggta ctactattat 300
tatcaaacct gaaagttgga acatgtgaac ttgatccttt gcacacataa aagttcacia 360
agctgctttt aatttgctt ttgtctgtag tactgcttgg tgaatcatgc actagtttgt 420
tgtaaaattc atgtaaactt ttatgtatac aaatgtcaga tcaagcacag gttttattaa 480
ttatatatat ttt      493

```

<210> 1513

<211> 510

<212> DNA

<213> Homo sapiens

<400> 1513

```

aaatgaggat tattgatagt actcttggtt tttataccat tcagatcaact gaatttataa 60
agtacccatc tagtacttga aaaagtaaa tgttctgccg gatcttaggt atagaggacc 120
ctaacacagt atatcccaag tgcactttct aatgtttctg ggtcctgaag aattaagata 180
caaattaatt ttactccata aacagactgt taattatagg agccttaatt tttttttcat 240

```



```
<210> 1514
<211> 511
<212> DNA
<213> Homo sapiens
```

```
<400> 1514
ctggagatca ggaatagaac ctttccaaga tatcataata ttttctttat aggaacaactg 60
agtaatggca agaatatattt gagctttttcc atggttaaga gcgatatgtct cagaggctgg 120
agaaaatgtt cattctgtct agtgatccag gagtgtgagg acagtagctt cctttccacg 180
tccacaagac aatgacagat gtgtttccct ctttgccctt tctagggatc tttctaggga 240
tgttgattct ctccacaatat ttcaatgtcc catttctgtg tttcttctcc ctccaggggc 300
tgatttacga ttacatgagt ctgtgcacaa taatttcttc ctttaacatc aaggacaagt 360
tgatcaactga gataagagct gatagttcca tttttattca gtctccactt ctgcctgaat 420
tgcccatgtt cagtccatag agctacttta gctccaggtg tgggcccggc cnccatcaca 480
tcaagaactg gtttcaactgg gccttggaat a 511
```

```
<400> 1515
aaaggggaag gkgaractta aaagtattcc caactagatt atctacacca atacattgga 60
actctatatt ttgttttcat tttgtcttaa aaaaatgaaa tagcaacgct ctatcagtca 120
cacagaggac atgcarattt agcagtattg atattatact ctatcttggt ggattt 176
```

```
<400> 1516
ctggggaaaaa ccgtgcatta cctgcccatc ctgttcacgc accagctcag caaccgcgtg 60
aaggacctga tggtcataaa ccgctccacc accgagctgc cctcaccgt gtctaagac 120
aaggctcac tggggcggct gcgcttctgg atccacatgc aggacaccgt gtactcctg 180
cagcagttcg ggttttcaga gaaagatgct gatgaggtga aaggaatttt tgtagatacc 240
aacttatact tcctggcgct gaccttcttt gtcgcagcgt tccatctttt ctttgatttc 300
ctggccttt 309
```

```
<210> 1517
<211> 182
<212> DNA
<213> Homo sapiens
```

<400> 1517  
 ccaacatcta attttttttac tttttaatta tagctgttgt gactgatgtg agatggcatc 60  
 ttactgtggg ttttgcttgc atttatttat ttgatgatta gtaaggatga gtgttttttc 120  
 atatacttga gtgtcttctt ttgagaaaat atctgttcat gtcctttgcc ttttcttgat 180  
 tt 182

<210> 1518  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 1518  
 cctgagggag agggaaaagc ggataccac ctgtgtcgct gtttgcggtgc caagtccagg 60  
 aacagtccat acagccctgc tgcacccac gacgctgtca caaagcagga gttcatccga 120  
 ggccaagggtg ttgtcatgag aatattcggt aaagtaggga cgtgacttt gttcttgggc 180  
 agattctctt cctgtggagt atccagcctg tttgcctagt tttcctgttc ttctggggtc 240  
 tgatctctat ctgttttact gcagtccagt taccaaagtg gtataagtaa aattgaaaga 300  
 attctaaata ctttttcccc ccacgttagc tgctcacgt taatgtgggc ttacgggtctg 360  
 caaataagtg ttttgatgat ttggcgactg cagttaccca tactagctct cctaccactc 420  
 actactgaca gttaattatt atcgaatatc caccaccca gggtaggtta taagttatac 480  
 caggtgtttt ggtaataaat actaatgcaa ttaatttact ggttactctc tcactcttaa 540  
 gtaatcag 548

<210> 1519  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<400> 1519  
 ctgggtgaagg acggcttctt ggtggaagtg tcagagagct cccggaagct gcggcacgtc 60  
 ttcctcttta cagatgtcct actgtgtgcc aagctgaaga agacctctgc aggggaagcac 120  
 cagcagtatg actgtaagtg gtacatcccc ctggccgacc tgggtgtttcc atcccccgag 180  
 gaatctgagg ccagccccc ggtgcacccc tcccagacc atgagctgga ggacatgaag 240  
 atgaagatct ctgccctcaa gaggtaaadc cagaaggaga aagccaacaa aggcagagc 300  
 cgggccatcg agcgctgaa gaagaagatg tttgagaatg agttcctgct gctgctcaac 360  
 tccccacaa tcccgctcag gatccacaat cggaatggaa agagttacct gttcctactt 420  
 gtccctcgac tacgagaggt cagagtggga gagaagcaat ttcagaaact acagaagaaa 480  
 ggatcttcag g 491

<210> 1520  
 <211> 169  
 <212> DNA  
 <213> Homo sapiens

<400> 1520  
 ctgttactgt cgatttgga agctggctgg aaaaaactta ttcattgaagg ggctgatggt 60  
 gtgggacagg gccaggattc ccagcacgaa gaaatacatg gacagcagga ggttgatgta 120  
 ctctggggag aatattttga aaaagaggtg gagccccaag agtgtgcag 169

<210> 1521  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<400> 1521  
 aggacgacgc tgtcrgargc agggagagca aattaccaca gcttcttggc ccagttctgc 60  
 ccttctttgc tttgggattg cactgggcca tcagctcatg ccaggctatg ggggcagcca 120  
 gttggcattg ctccccagac tgaacagaaa cctggccgcc ggatgggacc tcctttggca 180  
 cagacttgac tgtgtaactg cataaactgc agtagcatca ttgccctaga tgccccagga 240  
 gacctggcac catgaggatt acagacagtg gaatcttact gtcactctgga cag 293

<210> 1522  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<400> 1522  
 ccacgtggga ctttgaagac agcacaacac agtccttccg ctggcatcog ctccggggcca 60  
 aggcggagaa atacgaagac agcgttcctc agagtaatgg agagctcaca gtccggggcta 120  
 agctggttct cccttcacgg ccagaaaaac tccaagaggc tcaagaaggg acagatcagc 180  
 catcacttca tgggtcaactt tgtttggtag tgctaggagc caagaattta cctgtgcggc 240  
 cagatggcac cttgaactca tttgttaagg gctgtctcac tctgccagac caacaaaaaac 300  
 tgagactgaa gtcgccagtc ctgaggaagc aggcttgccc ccagtggaaa cactcatttg 360  
 tcttcagtgg cgtaacccca gctcag 386

<210> 1523  
 <211> 178  
 <212> DNA  
 <213> Homo sapiens

<400> 1523  
 aaaaagccta tcccatactg aattgtggga acctatgaag tgtctcttaa tgtcaattaa 60  
 aagtaacagt ggctgcagat attgatttct gaaagtacat gagaatttgt ctctaactat 120  
 ggttgaaaca acaaaaacaa atctgaatca ggtagaggtc taccagacac aaactctg 178

<210> 1524  
 <211> 319  
 <212> DNA  
 <213> Homo sapiens

<400> 1524  
 wycacagcwg aaatggggca ctgaagtgtg gagscacaka atgcggggagg gcagaaccac 60  
 agacaggagg ctgagattga cctcctgagt gcaagctggg ctccccttca cctcctgcac 120  
 cctacgcaga tgggtgcttac cataggattg ccgtaaaaaca gagacacgca ccagcgagaa 180  
 acttttagccc ttagtatccc atcctcagga cagaatcact cttaaacadg ttgaaatata 240  
 tctgcttaga gcttttctat gtgtctatat aatgtatgca taatatacaa ttagaagcat 300  
 gtgattttat aacattttt 319

<210> 1525  
 <211> 467  
 <212> DNA  
 <213> Homo sapiens

<400> 1525  
 ccagactaga cagagatcag gtcactcagg gagcttccga gcttcagcaa agcccacagg 60  
 tagctctgcg aactcagaat gctaccctac ctccctgca ggccgctgtt catgtctgga 120  
 ctccctgggg cgctatttaa tgtttacccc catctccagt gccccttcca aggctgtgca 180

```

gtgtcttggg gctctcagg ccaacatcga agagatgggg gccacctett aacacctggc 240
aacagtctcc cctcatcctg attcctgaca acagacaaaa caccggtttc tagggtttat 300
ctgtttgttt tttgagttga gggttcctca gggccttggc attgctagtg atgggtcccct 360
ttgctgtgtg agaaccccc caaccccttc ctctccctc tggggatgaa gtgggagtat 420
ttggctcccc atttttgaca aaagggctca gtgcaggagg gtggagg 467

```

```

<210> 1526
<211> 439
<212> DNA
<213> Homo sapiens

```

```

<400> 1526
aaactgttta ctggagaaaa tcctcgctca tgtccattta ttgttttttt ctgtactgtg 60
at ttgttttca agcttaggaa aactagtata ttagagtatg ttctaggaaa ttaaaagatc 120
tggttagagt aaaaagttct ttttaagggt cttaactaat tttttcacia ctaagaaaat 180
aaatgaagta ttcttaggct gaaattcatc ttattttatc ataaattaga ttgtaggggc 240
agcctacatt tttgtgtatg tgtttttatt tcttaaatga ttgtgtgagc ctgggtgacat 300
tttatggttc ttgtgatcta aactgttttt ccaattcaca tcttttgtcg tgaagtata 360
ttataactaga gtactgtttg cattgtaaaa atgctttgct ggtgctctgg cattttgtct 420
ttatctcatc acctaattt 439

```

```

<210> 1527
<211> 609
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 582
<223> n = A,T,C or G

```

```

<400> 1527
ctggagaact tgggctccat taggtgcaat cgttggagta attagcccat cttttacatt 60
tcttgccaca aaatctcgaa gagctgccat ttcagggtcg gacagtgaat acacatgtcc 120
actgggaata ctgtgtgctc caggatcatc ttctatgtga ggggtcaacca ggcggtgatc 180
tggttagacg tgctcatcta ctggagtgtg cacattctgg acatagtaat acctcaactg 240
ttggtaaact ctgtatccat ctactggata atagagtggc ggttgtggtg ctgggtggtg 300
gagcgatggt ggtattggag aatacatccg gcagtggtag cggcagtatt cagaatcaaa 360
gacgatagat cgagtgtccc atgtgatatt gggatcatgt gtgctcagcc agcgaacccc 420
taggacgaca gggaagaatg gagactgagt cacatcaaat gacagcacct ctcggtgatc 480
tcccagggtc actatcaggc cgtgagtttc gtggacaact gggcccgatg ctatggggcg 540
cccatcaatt gcttcacaaa gtattggacc cgcccgggcg gncgctcgca agggccgaaa 600
ttccagcac 609

```

```

<210> 1528
<211> 393
<212> DNA
<213> Homo sapiens

```

```

<400> 1528
tgatgtaatg aattcatatt tattgataca gaaaaatatg atataatcca tctaaaaagc 60
aagttacaaa acagtgtaca gtgtaccata gtacctatga acacaattag tgaagtaatt 120
tgcagagcta taataccaaa tcagaaatta ttttggtaat gaatttatga ttttcctcgt 180
tttctgattt tttccatgat ctcatatact ttattctcag aaaacaaaag acaaaacccc 240

```

```
<210> 1529
<211> 143
<212> DNA
<213> Homo sapiens
```

```
<210> 1530
<211> 636
<212> DNA
<213> Homo sapiens
```

<400>	1530					
gtggagaagc	ggcttggtcg	ggggtggtct	cgtgggggtcc	tgctgtttta	gtcgttttca	60
gggttcttga	gcccccttcac	gaccgtcacc	atggaagtgt	caccattgca	gcctgtaaat	120
gaaaatatgc	aagtcaacaa	aataaagaaa	aatgaagatg	ctaagaaaag	actgtctgtt	180
gaaagaatct	atcaaaagaa	aacacaattg	gaacatattt	tgctccgcc	agacacctac	240
attggttctg	tggaattagt	gaccagcaa	atgtgggttt	acgatgaaga	tgttggcatt	300
aactataggg	aagtcacttt	tgttcctggn	ttgtacaaaa	tctttgatga	gattctagtt	360
aatgctgctg	acaacaaaca	aagggaccca	aaaatgtctt	gtattagagt	ccaattgata	420
cggaaaacaa	tttaattagt	atatggaata	atggaaaagg	tattcctgtt	gttgaacaca	480
aagctgaaaa	gatgatgtc	ccmncctctca	tatttggaca	gtcctaact	tctagtaact	540
atgatgatga	tgaaaagaaa	gggacagggtg	gtcsaaatgg	ctnttgagcc	naatttgtga	600
acatatccaq	tacccaattt	actcngggaa	acagcc			636

```
<210> 1531
<211> 194
<212> DNA
<213> Homo sapiens
```

```
<400> 1531
aaaaggcaga gcattctttt ttcggcaatt ttgataagca aggtgtagat ttacattttt 60
gtccttgctc ccaacgaaat ggataaacia aaataactta ccatctactc atggaatggt 120
gttgtgttag ccagttctga ggcccacctt aatttttata taactgtctt tagctcttct 180
tttgacaggg cagg                                     194
```

```
<210> 1532
<211> 300
<212> DNA
<213> Homo sapiens
```

```
<210> 1533
<211> 521
<212> DNA
<213> Homo sapiens
```

```
<210> 1534
<211> 181
<212> DNA
<213> Homo sapiens
```

```
<210> 1535
<211> 544
<212> DNA
<213> Homo sapiens
```

<210>	1536
<211>	591
<212>	DNA

<213> Homo sapiens

<400> 1536

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ccaacatctg cctgctatct ggtgcatcac ccaagggtgac caatggctgg gcacaaataa 120
acttctcttt tgctagccac agagtgtgctc actgtggcaa gcctgagctg gtcagaacac 180
ctgtgtgtgt gtccctgata cactactaacc acaataagca agtctgcaca catctctatg 240
agcccatgac aaagacaaga cattcccaaa gatcagtcac tagagtgcaa caacgaaatt 300
caagatttga ccaaaacaga cctgctgccc tcctaaattg ccaattgcct ctcaaaaact 360
tacagaaaaa gggacattat aagaattcat agagggagag aagaaaaagc tgetactcct 420
agtcattagt acaatgtgct gtgttaatta gatacctcta tataaattag aaaaagtgtc 480
ttacttgcac gcttcaataa aatgaatact gagtgtcgta gtgttagatc tgtacagata 540
taaatttttt gcagctatat aaaagtgtat aagatgggct ttgcccattt t 591
```

<210> 1537

<211> 341

<212> DNA

<213> Homo sapiens

<400> 1537

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acttcggggc tccctctccc tgtgcagacc ggttgaataa atgataaaat tactgtttgt 60
gtcctctgtg aagtctggat taatggaaaa aaggatttgt gaggctagtc ttaggctgta 120
gccaatctgg tgtgcttttt gtgtcttcct gtatggttcc atgataagga ggaatacctt 180
aggatagaat gcaagcctag gaccccataa gcctgttggt caagccaacc agcaaaactgg 240
gcagtaacaa acattgctgc aggtttccat tttgttttac gtccctggga gcttgacctt 300
gtaaccacgt ggcagtacct tcttttggcc tctgccattt t 341
```

<210> 1538

<211> 363

<212> DNA

<213> Homo sapiens

<400> 1538

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ggacctgact ttgagtccat cagagacaaa gtgagtgaga tgcacataca gtgtttccag 60
acctgactca gcccatctgt ctgttaggaa actttatgaa gacgcccccc agaattaaac 120
cctaattcaa atgtctcact ctgaatagag accttctgaa ataactttgg tatagagacc 180
cagacacgtg ctttttgcc taaaaataaaa atatttagcc catgttggtt tatgtatctg 240
tctttcagtt agttttgaag gccgcacgg aaaagtgggg cctgtgcacc tgaagagaaa 300
tgtgtatgtt atgtggttgt tggctcttcc tactagagtt atcttgataa ttgtgaagag 360
tgg 363
```

<210> 1539

<211> 371

<212> DNA

<213> Homo sapiens

<400> 1539

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ctgtgggggt cttccagag aggagctgag atacgcctac ctggaggggc ccctgggcct 60
ggaggggctc ctgagtgtga ctgggtgaag tgttttcaga ggaccagggt tgaggttggg 120
ggcatctcat ccagaccctg ccggcatctg cccagaacc caaggggccc tccttcctcc 180
ctctcaatg gaaatgctgg agatgtcctc agtcaccctc tgagcaactca cacatcacc 240
cttattttgga aatttttctc actctaacct tccttcctgc tgcaccttct gcccacccc 300
caggctctgg cctctctctc tcctcttcta ccctttagca ggtaatgact cagttcccac 360
tgaggagcca g 371
```

<210> 1540  
 <211> 403  
 <212> DNA  
 <213> Homo sapiens

<400> 1540  
 ctkgacgtga tggagcaggt gagcagtgcc cgtggggcctt gccagagggc tgaggaggac 60  
 cctctctaac cagctccctg tcccccttct tctgtagctt gagttgaaga agacactgct 120  
 ggacaggatg gttcacctgc tgagtcgagg ttatgtactt cctgttgtca gttacatccg 180  
 aaagtgtctg gagaagctgg aactgacat ttcactcatt cgctattttg tctactgagg 240  
 cagcaatgca ccgttggttt catgtttcat actgtttaca ctagcactgc cctttttggc 300  
 ttaatttagt tcattttgta cctaactgag aactgtgctt tctgatgtag tgatgacaat 360  
 gacagatact cgttttacaa aaagcacctt ctgcctgcag cag 403

<210> 1541  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 1541  
 taaaacaaaa ctaaagaaga gaaaatatat tctcgtaaat tatctgaact taaaagatgg 60  
 aagcctggag atagatttgt gataagccat tgctgagtag atcctagagt tcttgataat 120  
 ttcagttggt taaattacaa tagtttgcta ttccctccct cacattttat gttctacagt 180  
 atctagctgc ttgggttttc ctgtatacca tggggcttct gtcactctggg ctttactcag 240  
 tggcatattc cctctgccta aaactctcct cccctctcca ccttagaagt agcttttcc 300  
 agaacgggtt tcccagggtt tcacctaagg tgatagtaca atctacaggg acctgcacat 360  
 gaagaccttt gcatacatgc caggaagttg gactttatct ttggaaaaag ggagcctttg 420  
 aagggtttt 428

<210> 1542  
 <211> 345  
 <212> DNA  
 <213> Homo sapiens

<400> 1542  
 awttaaatgc ttagcaagca gcaattccac gatgggtcaaa ttccctaatat gagagaagta 60  
 gaaataggaa aaatagggtc cctgatact tatgttttca ttttgcttaa tatacgtttg 120  
 tatatttcaa tataacatta atagatatcg tgtcccttca cagttctaaa gtagtaagca 180  
 aaatgaatta atttaaccta tgcaattaaa accaatttg aagaatattg aggtagcaca 240  
 ctgttacggg aattagtatg actcagtaat gcagttgaaa gttagtggct cctaattccag 300  
 tatgaatcat ggagatgaga gaaatgatta gataaagaga tatatt 345

<210> 1543  
 <211> 420  
 <212> DNA  
 <213> Homo sapiens

<400> 1543  
 aatattgaat ttctagaagc agtatattgc ttactgcttc ttaattacgt tatagatgag 60  
 gtggaaatga taaaaactaa agaagcaaga ttaatcttta acacacattt caggctgttg 120  
 taaaagaata aacaatgctt catataaact tctagcaaat gacttcctaa tgagggtcttg 180  
 aaacagtctt tagggcacgg aatgtcatca cataattaag cagctttaag cctttattaa 240  
 aaggcttaaa gtcgcaaaca atgaaatctg aaacaaactg taccatatta aactttttg 300



tgatattttca aattcagtaa aagaaaaaaaaa ggatgggttca gaataacatc acgtatttcta 360  
atcctgaaac acataacaaa tgcattctgaa acagcaattc ttaaaaaggt tttgcccttt 420

<210> 1544  
<211> 306  
<212> DNA  
<213> Homo sapiens

<400> 1544  
ctggcttcac tctactccc tctctgctcg cagcacgtcg gccgccagct ctttgatgtg 60  
ttcccaggcc cgctgcacat gggcagattc caccgtgcga gaacagatgg caaagcgcag 120  
gacaaacttg tccctgaggt gacatggaac caagtggatt tttttggcac tgtttattct 180  
ttgcagaaga gcttcattca ctttgttgga accctttagc cgaaagcaga caagccccag 240  
aatgacttcc acacagattt caaagcgggg atcctggcgc accagtgact caaactcatg 300  
ggacag 306

<210> 1545  
<211> 110  
<212> DNA  
<213> Homo sapiens

<400> 1545  
ctgctccggg ctttcactct gaagatcagc gtgtgcgatg ccgtcctgga ccacaacccc 60  
ccaggctgta ctttcacagt cctggtgcac acgagagaag ccgccactcg 110

<210> 1546  
<211> 239  
<212> DNA  
<213> Homo sapiens

<400> 1546  
aaagaaatat gacacgggtg ttgatattct aagagacttt tttgaactca gacttaaata 60  
ttatggatta agaaaagaat ggctcctagg aatgcttggt gctgaatctg ctaaactgaa 120  
taatcaggct cgctttatct tagagaaaat agatggcaaa ataactattg aaaataagcc 180  
taagaaagaa ttaattaaag ttctgattca gaggggatat gattcggatc ctgtgaagg 239

<210> 1547  
<211> 527  
<212> DNA  
<213> Homo sapiens

<400> 1547  
aaaaattcca gttgagattt ttctggttct ctgtataaag attgactgga acatatacat 60  
tttggggttt atgtttggag actttggctc ttattcaaac cttccatttt agttggcttc 120  
ttctgacagt gcttcagcat ggaagcaagg agggggcctc attactgcc a ggttaagggtta 180  
aaaatctagt ttctctgctg ggtctccatt gtcactaaga aaggaatggc tctgttattg 240  
ctgggcaggg ttggctgttc caactgataa tctatgtct gggagggcta ggagtgcctc 300  
cttgctgttc ctcttggtgt ttccactgac agtggagtgg ccttggtact gctgggtggt 360  
ggttgagagt tctggctctc tactagggag gacacaacct cagtgtagag aggcggggat 420  
acctgtttac tgtcaggcac aggcggaggt ccagtctcct tactccacct acccaacagg 480  
gtagcttgag gcacttcatt attgcctagt gagagtggaa gtttagg 527

<210> 1548

<211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 1548  
 ctgtgggagg agctagtagg ggcggggcta cgtgattgac acttctctcc tcagacttca 60  
 agggctacca ctggaccctt cccctgtctt gaaccctgag ccggcaccat gcacggacgc 120  
 ctgaaggtga agacgtcaga agagcaggcg gaggccaaaa ggctagagcg agagcagaag 180  
 ctgaagctat accagtcagc caccagggcc gtattccaga agcgccaggc tggtagagctg 240  
 gatgagtccg tgctggaact gacaagccag attctgggag ccaaccctga ttttgccacc 300  
 ctctggaact gccgacgaga ggtgctccag cag 333

<210> 1549  
 <211> 438  
 <212> DNA  
 <213> Homo sapiens

<400> 1549  
 ttgacagtgt acgtgggagc aggttccagg gtggggctgc cctgccgcct gcttgetggt 60  
 gtggggaccc ggtcttttct cactgccaag tggactcttc ctgggggagg cctgacctc 120  
 ctggtgactg gagacaatgg cgactttacc cttcgactag aggatgtgag ccaggcccag 180  
 gctgggacct acacctgcca tatccatctg caggaaacagc agctcaatgc cactgtcaca 240  
 ttggcaatca tcacagtgac tcccaaattc ttggggtcac ctggatccct ggggaagctg 300  
 ctttgtgagg tgactccagt atctggacaa gaacgctttg tgtggagctc tctggacacc 360  
 ccateccaga ggagtttctc aggaccttgg ctggaggcac aggaggccca gctccttttc 420  
 cagccttggc aatgccag 438

<210> 1550  
 <211> 204  
 <212> DNA  
 <213> Homo sapiens

<400> 1550  
 aaaactaagt tattccaaca ctaaaagcat acaacagcat gccaacagta atatattatt 60  
 ctccaagact ttacctatgt aagtgttcaa aactctgcag cattaaacaa cgtgtatgca 120  
 aattgttatg gatacatctc agaattctag aaatcaggca agtgcttaaa aggccaacgg 180  
 tccaagggat tacatctgca gttt 204

<210> 1551  
 <211> 132  
 <212> DNA  
 <213> Homo sapiens

<400> 1551  
 ccactctgtg atttgtctgt gcacctattg gctcttctag ctgactcttc tggttgggct 60  
 tagagtctgc ctgtttctgc tagctccgtg ttttagtccac ttgggtcacc agctctgcca 120  
 agctgagcct gg 132

<210> 1552  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<400> 1552

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ctgaatagag gtcaacacag ttgcgatgtt gagggatggt ctccaagcac cttttggtgg 60
caatttgaga acatccagac aaatccttcc agcagaatca atgtttggat gataaattgg 120
agtgagaaat cggatctgag gaggttcaaa tgggtacctc tcaggaatga taacttctag 180
cttaaaaaca cttttctcat aaggtgtgtt ggctccacct aatatttgag ctcgcaggtc 240
atccatttgg tctttatctt gccaacatgt gatgcctggg ggtggctctg tggctaacat 300
gtgcagctct ctcttcagac gtgaagctct ctgcatgatc cccaagtaga aggaaccaca 360
cacagttcac tgctccacac taagagctgs ctgggatgca ctgagctgac acccctcaca 420
acgcagcaac gcg 433

```

<210> 1553

<211> 316

<212> DNA

<213> Homo sapiens

<400> 1553

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gagcaaggtc tgctgagaac agaccagtc cctgaggaag gagaagatgt tgctgccacg 60
atcagtgcc aagagaccct ctcggaagag gagcaggaag agctaagaag agaacttgca 120
aaggtagaag aagaaatcca gactctgtct caagtgttag cagcaaaaaga gaagcatcta 180
gcagagatca agcggaaact tggaatcaat tctctacagg aactaaaaca gaacattgcc 240
aaaggtggc aagacgtgac agcaacatct gcttacaaga agacatctga aaccttatcc 300
caggctggac agaagg 316

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<210> 1554

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 517, 532

<223> n = A,T,C or G

<400> 1554

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aaaggaatta ttctggcagc acatgtagta ttcttggatg atcttgcctgc tcttatttct 60
ccttttgtgt gtgtgtgtgt gtgtgtggct atgggttttc atttgtaact ccatctgctt 120
argagagtgg gctctctata agggaacctg ctgtaaaact cattgcagca aggatgtaga 180
gagaaatagg acttaattcc actaggggct ctcatctcac accttaagga ggagatttct 240
agaaaaactg ggccagattt tctttgytct ccatcatttt aatgtggcag gctgytcagt 300
tttcttactc ttacctatgw gatatttctt cgtaacgtgt ccaaaaagaa aaaagacca 360
atcagtgtct cttgactttg ttctttgatc cctcagtttc ttcttgattt cagcatgtgt 420
ccgggttcct aattttgggt atgagtttag aaatttaacc attgtgtttg tgccctaccc 480
aggggactcc ccagtttctg acttgaagta gactganaag aatccacgag gngctatatt 540
gg 542

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<210> 1555

<211> 117

<212> DNA

<213> Homo sapiens

<400> 1555

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ctgtctgtgg cttcccatgt ctttctccaa agttatccag agggttgtga ttttgtctgc 60
ttagtatctc atcaacaaag aaatattatt tgctaattaa aaagttaatc ttcattgg 117

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<210> 1556

<211> 111  
 <212> DNA  
 <213> Homo sapiens

<400> 1556  
 ctgctgcagc cgcagtttct catccggagt gtaccccgtc atgtcgccgc tggtagcaac 60  
 gcaaaaggac acggcgcacc ctcgaactac ggactagtta cttaagcgcg c 111

<210> 1557  
 <211> 454  
 <212> DNA  
 <213> Homo sapiens

<400> 1557  
 cgaggactga tcctctagta ctaagtgact ggggatatta caytarccaa cattgggtga 60  
 tacatacctk artmatcatw tgaggaygca gtgataarsg sataawmywg tatsatccya 120  
 acaygyacta rctcaaaaac tagtgggggc ggattgatct cctgtgggac wkacatgsc 180  
 ctgaaagtga acatgmtcmt ratcacctgc agrgcttgag atggyccmca tkgcwgcaact 240  
 ccgccccyac akttttttgaw tcwacwggag ttaggswgmt yctwgawtta kcctttctac 300  
 ctgcctccyg akagrwcgcw wygastwggg kgaatssatt gackkctaag rttakacttc 360  
 cactaactct gtacgmtgar ctcttactaa tattcgttac cacgctaaga ggctctgctc 420  
 caggatctca tcgcgactgg aaggaacctc cagc 454

<210> 1558  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<400> 1558  
 aaagaagtgc agttgatatc taatttacac agtgaaacta gtgatagaaa ataactaatg 60  
 aaaaaaaatc agagactggt ttccaattga ttgacaccta gatctgtcag cctctcttaa 120  
 agaaagggga aggagaaaaa aaatctcatc atggaaggca gacaagagtc cacctgacag 180  
 aggtggaatc tgatggaatc tgacccatt tcatgataaa cgagaggaaa cataaatgcc 240  
 atctcaaata ctaaagcgat gtagtgtagc atgagtgact caatgcaaat tcacagagga 300  
 aaagaagtta cggcttagga agtaggacaa taaatacaaa tatttcatct tatttaattg 360  
 tgcattgactt cagtgaact accctttgca atgcaataaa tttt 404

<210> 1559  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 1559  
 aaactatcag aagagatgag agggaattga tctacaatac tagaatitaa tgtgcagaca 60  
 aatccacatc tggaaatgaa atcacagtaa gatattttcg ggagaccaa acataaaaat 120  
 tgctagaata aatttgccac gaacgagtaa ctagacatta gaaattgact acatagatat 180  
 agtaatacta aaagtgtgaa aaacaagcaa acacaacaca cacattctca attctttttt 240  
 tttctatcaa atatcttcaa cttttt 266

<210> 1560  
 <211> 142  
 <212> DNA  
 <213> Homo sapiens

<400> 1560  
 aaaactcagt atctttctgaa ccagaggcat ttctgattag cccttcccta cctatttttcc 60  
 tagtatcact ctttaaatcag cttggggagg tggcagcatt tcatggcctc cgtagtaact 120  
 cacaatgctt cctgggggat tt 142

<210> 1561  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<400> 1561  
 aaacactaaa tgaagcttct cacaatttct aattataaac aaaaggctga aaacagtatg 60  
 ggaaacaaaag tttcaaaaaca aagaaaagtt gagtaaaaagg tgccccctct atggctcatc 120  
 tgaaagaaac attttactca gagaggcaaa catttctgat ctaggagtaa gtttccact 180  
 cactttgcaa ggaccctactc attctgcaga aagacctaca agtctttctg gtctcaattg 240  
 caaagtacgt gaaaatgtgt atgaaagatc taaaagctaa atattagaat aaggctaatt 300  
 gaaatcaaaa ttgtgtgctg gtctaaatat acatcttcgg cttcttcctt tttagtaagt 360  
 atttttatatt cagatgtatt t 381

<210> 1562  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<400> 1562  
 ggagaaagga gaaccgtaca tgagcattca gcctgctgaa gatccagatg attatgatga 60  
 tggctttttc atgaagcata cagccaccgc cggtttccag agaaaccacc gcctcatcag 120  
 tgaaatttctt agtgagagtg tgggtccaga cgttcgggtca gttgtcacia cagctagaat 180  
 gcaggctctc aaacggcagg tccagtcctt aatgggttcat cagcgaaaac tagaagctga 240  
 acttcttcaa atagaggaac gacaccagga gaagaagagg aaattcctgg aaagcacaga 300  
 ttcattttaac aatgaactta aaagggttgtg cgggtctgaaa gtagaagtgg atatggagaa 360  
 aattgcag 368

<210> 1563  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 32, 332, 333, 346, 361, 381  
 <223> n = A,T,C or G

<400> 1563  
 accwtrsaac tgcawttatt acctatgcta gntttggata agaamtgkyc wtayatgtga 60  
 kagcaagagg gcacyaraws wrcttsaaca ccaawgggcm ktactwtata kawmcgawgg 120  
 gcatgctwtm atgaccaact grmtgactgt ttgagaatgg acaargtgct agcgctaaac 180  
 ctgtcctttct tgaacrtggc ttgactaacg kcwttgatac gttrecltca kkasaataact 240  
 attactasac tttgktgctt gattaccgac tgggtgactc ttgmtctcac ctatgargac 300  
 agtgctttac acaaactcrt akggaaaatt gnntttgtmc tgtganctac tcatcygaga 360  
 nctccctaag ggctaacatt ncatgtttcc gtctcactag ctacacgttc t 411

<210> 1564  
 <211> 602

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 597, 598  
<223> n = A,T,C or G

<400> 1564  
ctagttttaa gatcagagtt cactttcttt ggactctgcc tatattttct tacctgaact 60  
tttgcaagtt ttcaggtaaa cctcagctca ggactgctat ttagctcctc ttaagaagat 120  
taaaagagaa aaaaaaaggc ccttttataa atagtataca cttattttta gtgaaaagca 180  
gagaatttta tttatagcta attttagcta tctgtaacca agatggatgc aaagaggcta 240  
gtgcctcaga gagaactgta cgggggttgt gactggaaaa agttacgttc ccattctaata 300  
taatgccctt tcttatttaa aaacaaaacc aaatgatatc taagtagttc tcagcaataa 360  
taataatgac gataatactt cttttccaca tctcattgtc actgacattt aatgggtactg 420  
tatattactt aattttattga agattattat ttatgtctta ttaggacact atgggtataa 480  
actgtgttta agcctacaat cattgatattt tttttgttat gtcacaatca gtataatttc 540  
tttgggggta cctctctgaa tattatgtaa acaatccaaa gaaatgattg tattaannat 600  
tt 602

<210> 1565  
<211> 473  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 214, 291, 295, 345, 375, 442  
<223> n = A,T,C or G

<400> 1565  
ctagtccagt gtgggtggaat tcatccaggg ggctaccctt ggctctctgt tgccagtggg 60  
catcatcgca gtgggtgtct tctcttctct ggtggctttt gtgggctgct gcggggcctg 120  
caaggagaac tattgtctta tgatcacgtt tgccatcttt ctgtctctta tcatgttggt 180  
ggaggtggcc gcagccattg ctggctatgt gtttagagat aagggtgatg cagagtttaa 240  
taacaacttc cggcagcaga tggagaatta cccgaaaaac aaccacactg nttcnatcct 300  
ggacaggatg caggcagatt ttaagtgtct tggggctgct aactncacag attggggagaa 360  
aatcccttcc atgtngaaga accgagtcct cgactcctgc tgcattaatg ttactgtggg 420  
ctgtgggatt aatttcaacg anaaggcgat ccataaggag ggctgtgtgg aga 473

<210> 1566  
<211> 53  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 15, 24, 28  
<223> n = A,T,C or G

<400> 1566  
ctagtattata atagnaataca attnoggngt cattagttca tagcccatat atg 53

<210> 1567  
 <211> 136  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 91, 104, 117, 126  
 <223> n = A,T,C or G

<400> 1567  
 ttattgattt ttttttttca ctttcccat cacactcaca cgcacgtca cactttttat 60  
 ttgccataat gaaccgtcca gcccctgtgg ngatctccta tganaacatg cgttttntga 120  
 taactnacaa ccctac 136

<210> 1568  
 <211> 192  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4, 16, 17, 48, 52, 57, 82, 91, 98, 109, 123, 151, 155, 162,  
 166, 168  
 <223> n = A,T,C or G

<400> 1568  
 ttgngtctgt gtgagnnggt tgaccttccct ccattcccctg gtccttcnct tnccttnccg 60  
 aggcacagag agacagggga gnatccacgt ncccatntg gaggcagana aaagagaaag 120  
 tgntttatat acggtactta ttaatatcc nttntaatt anaaantnaa acagttaatt 180  
 taattaaaga gt 192

<210> 1569  
 <211> 575  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 358, 505, 511, 513, 547  
 <223> n = A,T,C or G

<400> 1569  
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 cccctggtcc ttcccttccc ttcccgaggc acagagagac agggcaggat ccacgtgccc 120  
 attgtggagg cagagaaaag agaaagtgtt ttatatcgg tacttattta atatcccttt 180  
 ttaattagaa attaaaacag ttaatttaatt taaagagtag ggtttttttt cagtattcct 240  
 ggtaatatatt taatttcaac tatattatgag atgtatcttt tgctctctct tgctctctta 300  
 tttgtaccgg tttttgtata taaaattcat gtttccaatc tctctctccc tgatcggnga 360  
 cagtcaactag cttatcttga acagatatatt aattttgcta acactcagct ctgccctccc 420  
 cgatccccctg gctccccagc acacattcct ttgaaataag gtttcaatat acatctacat 480  
 actatatata tatttggtgcaa cttgnatttg ngngtatata tatatatata tgtttatgta 540  
 tatatgngat tctgataaaa tagacattgc tatttc 575

<210> 1570  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 10, 114, 374  
 <223> n = A,T,C or G

<400> 1570  
 ctagtccagn gtggtggaat tccgccgcca tcatgggtcg catgcatgct cccgggaagg 60  
 gcctgtccca gtcggcttta ccctatcgac gcagcgtccc cacttggttg aagntgacat 120  
 ctgacgacgt gaaggagcag atttacaac tggccaagaa gggccttact ccttcacaga 180  
 tcggtgtaat cctgagagat tcacatggtg ttgcacaagt acgttttgtg acaggcaata 240  
 aaattttaag aattcttaag tctaaggac ttgctcctga tcttcctgaa gatctctacc 300  
 atttaattaa gaaagcagtt gctgttcgaa agcatcttga gaggaacaga aaggataagg 360  
 atgctaaatt ccgncgtgatt ctaatagaga gc 392

<210> 1571  
 <211> 390  
 <212> DNA  
 <213> Homo sapiens

<400> 1571  
 gaaggacgtt tgtgttgga ggcctggtat ccccggcact cctggatccc acggcctgcc 60  
 aggcagggac gggagagatg gtgtcaaagg agaccctggc cctccgggcc ccatgggtcc 120  
 acctggagaa atgccatgtc ctccctggaaa tgatgggctg cctggagccc ctggtatccc 180  
 tggagagtgt ggagagaagg gggagcctgg cgagaggggc cctccagggc ttccagctca 240  
 tctagatgag gagctccaag ccacactcca cgactttaga catcaaatcc tgcagacaag 300  
 gggagccctc agtctgcagg gctccataat gacagtagga gagaaggctc tctccagcaa 360  
 tgggcagtc atcacttttg atgccattca 390

<210> 1572  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 368  
 <223> n = A,T,C or G

<400> 1572  
 ctgcagcttc tgctgctgag gccgggattg ctacgactgg gactgaaggt gaaagaggtg 60  
 gaatccgaag tccctgggact gccgggatgct aaacattgaa agctgggtgt aggcactgca 120  
 gggagagtgt ggaggtctga cagggttagga atatgtggga gggctgggct aggaatggcc 180  
 ttggaggctg gccctgtgtg atatggcacc aattctaccc tgctcctctt ttccttttcc 240  
 cagactcaga cgatgccctg ctgaagatga ccatcagcca gcaagagttt ggccgactg 300  
 ggcttcctga cctaagcagt atgactgagg aagagcagat tgcttatgcc atgcagatgt 360  
 ccctgcangg gagcagagtt tgg 383

<210> 1573  
 <211> 149



<212> DNA  
 <213> Homo sapiens

<400> 1573  
 cctccagagc ctctctagtgc gcagagcagc tcacactccc tccgctggga acgatggctt 60  
 ctgcctagta cctatccttg tgtttctgat gcagtggtag cattgggttca agttctctcc 120  
 tgctgtggtc agagttgctt cgatgttg 149

<210> 1574  
 <211> 143  
 <212> DNA  
 <213> Homo sapiens

<400> 1574  
 ctgccaggct gaaaagaagc ctcagctccc acaccgccct cctcaccgcc ctccctcggg 60  
 agtcacttcc actggtggac caccggcccc cagccctgtg tcggccttgt ctgtctcagc 120  
 tcaaccacag tctgacacca gag 143

<210> 1575  
 <211> 112  
 <212> DNA  
 <213> Homo sapiens

<400> 1575  
 ctgcatccac cctcttttcag ggggtagagc cactatactt ctcatgtaga tcagccacat 60  
 tgtcactgga gactcggatc cagccatcct cccgcacgtg gtagagggtg ac 112

<210> 1576  
 <211> 198  
 <212> DNA  
 <213> Homo sapiens

<400> 1576  
 ccagtatgtc cccaggatta tgtttgttga cccatctctg acagttagag ccgatatcac 60  
 tggaagatat tcaaatcgtc tctatgttta cgaacctgca gatacagctc tgttgcttga 120  
 caacatgaag aaagctctca agttgctgaa gactgaattg taaagaaaaa aaatctccag 180  
 gcccttctgt ctgtcagg 198

<210> 1577  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<400> 1577  
 cctgcctgga gccccagatc accccttccct actacaccac ttctgacgct gtcattttcca 60  
 ctgagaccgt cttcattgtg gagatctccc tgacatgcaa gaacagggtc cagaacatgg 120  
 ctctctatgc tgacgtcggg ggaaaacaat tcctgtcac tcgaggccag gatgtggggc 180  
 gtcacaggt gtccctggagc ctggaccaca agagcgccca cgcaggcacc tatgaggtta 240  
 gattcttcga cgaggagtcc tacagcctcc tcaggaaggc tcagaggaat aacgaggaca 300  
 tttccatcat cccgcctctg ttacagctca gcgtggacca tcggggcact tggaacgggc 360  
 cctgggtgtc cactgaggtg ctggctgcgg cgatcggcct tgtgatctac tacttggcct 420  
 tcagtgcgaa gagccacatc cagg 444

<210> 1578

<211> 294  
 <212> DNA  
 <213> Homo sapiens

<400> 1578  
 ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gctcacctca 60  
 ctaaccagta tatgcagaga atggcaagtgt tacgagctgt gcccaaccct gtaatcaacc 120  
 cctaccagcc agcacctcct tcagggttact tcatggcagc tatccacag actcagaacc 180  
 gtgctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240  
 ctcagggtgc cagacctcat ccattccaaa atatgcccgg tgctatccgc ccag 294

<210> 1579  
 <211> 295  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 176, 181, 182, 248  
 <223> n = A,T,C or G

<400> 1579  
 ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gctcacctca 60  
 ctaaccagta tatgcagaga atggcaagtgt tacgagctgt gcccaaccct gtaatcaacc 120  
 cctaccagcc agcacctcct tcagggttact tcatggcagc tatccacag actcanaacc 180  
 nngctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240  
 ctcaggnggc cagacctcat ccattccaaa aatagcccgg gtgctatccg ccag 295

<210> 1580  
 <211> 166  
 <212> DNA  
 <213> Homo sapiens

<400> 1580  
 cttcttttatt ggggacatgt gggctggaac agcagatttc agctacatat atgaacaaat 60  
 cctttattat tattataatt atttttttgc gtgaaagtgt tacatattct ttcacttgta 120  
 tgtacagaga ggtttttctg aatattttatt ttaagggtta aatcac 166

<210> 1581  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 420  
 <223> n = A,T,C or G

<400> 1581  
 ctgaggcaac agaataaatg cagaggcatt acaatgaatc ccacttaata taaagaacta 60  
 tacagaccaa cacttctcta caaaatTTTT ttttctctcat tgccagttaa atacagagtt 120  
 ttactttcat agcttaacaa tgaagggtca tacactgaag ccaatacata tacctagcat 180  
 ttcagtctaa gcttgtccac gtacatagct gaagtcaatt acaagggttg gcctagaaat 240  
 gctaggggaa cttcttttga gtttttacag gtattaaact tcatcttgca cactgaagtc 300

```
<210> 1582
<211> 302
<212> DNA
<213> Homo sapiens
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```
<210> 1583
<211> 170
<212> DNA
<213> Homo sapiens
```

```
<210> 1584
<211> 368
<212> DNA
<213> Homo sapiens
```

```
<210> 1585
<211> 392
<212> DNA
<213> Homo sapiens
```

```

<400> 1585
caaccctctc tctcagcgc ttctttctttc ttggtttgat cctgactgct gtcattggcgt 60
gccctctgga gaaggccctg gatgtgatgg tgtccacctt ccacaagtac tcgggcaaag 120
agggtgacaa gttcaagctc aacaagtcag aactaaagga gctgctgacc cgggagctgc 180
ccagcttctt ggggaaaagg acagatgaag ctgctttcca gaagctgatg agcaacttgg 240
acagcaacag ggacaacgag gtggacttct aagagtaactg tgtcttctctg tcttgcattc 300
ccatgatgtg taacgaattc tttgaagget tcccagataa gcagcccagg aagaaatgaa 360
aactcctctg atgtggttgg ggggtctgcc ag                                     392

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<210> 1586  
 <211> 158  
 <212> DNA  
 <213> Homo sapiens

<400> 1586  
 cctccactgc cagcctatgg ttgttcgccca ccaagccagg agtgctgcac cgcccagtg 60  
 tccccctcgg gctccaggcc cccactgaga cctctcggga ggcagaagca cttcaccct 120  
 cagagtccca caagtccaac cagtggacct ggaattgg 158

<210> 1587  
 <211> 85  
 <212> DNA  
 <213> Homo sapiens

<400> 1587  
 ccaatgtaca tgggtggacta tgccggcctg aacgtgcagc tcccgggacc tottaattac 60  
 tagacctcag tactgaatca ggacc 85

<210> 1588  
 <211> 369  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 363  
 <223> n = A,T,C or G

<400> 1588  
 ccaggctacc ttccactcgg agacaggcag ggggacagg gctaaggagc ctggcaggca 60  
 gggctggcag gcccattggc gcctgttcca gcagatgaca agcccaggtc agggtagagc 120  
 gggcaggagg ggggacgagg gctcccacaa catgattttg tgtaaaatat ggcagcgaca 180  
 cacgctcagg gccgggagggt ggggggttagg gtggggacgg cggcaacatc gtgtaaaaaa 240  
 gtgtccagct tcccatagca aagagagctg tgaccgggtg ttcagagctt ctccagtaca 300  
 agggggaaaag ccgcccggcg ggggcggcgg gcaggacat catttggtt cctggtgctg 360  
 tcngtccga 369

<210> 1589  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<400> 1589  
 ctgtagcttc tgtgggactt ccaactgctca ggcgtcaggc tcagatagct gctggccgcg 60  
 tacttggttg tgctttgttt ggagggtgtg gtgggtctcca ctccgcctt gacggggctg 120  
 ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180  
 agtgtggcct tgttggttg aagctcctca gaggaggcg ggaacagagt gaccgagggg 240  
 gcagccttg gctgaccag gacggtcagc ttggctcctc cgccgaacag tacaaaggga 300  
 ctcaggctgt tatcatagga ctggcagtaa taatcagct catcttcagc ctggagccca 360  
 g 361

<210> 1590

<211> 434  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 397  
 <223> n = A,T,C or G

<400> 1590  
 ctggagaagg tgtgcagggg aaaccttgct gatgtcaccg aggccagggt gtctttctac 60  
 tcgggacact ctctcttttg gatgtactgc atggtgttct tgggtctgta tgtgcaggca 120  
 cgactctgtt ggaagtgggc acggctgctg cgaccacag tccagttctt cctgggtggcc 180  
 tttgccctct acgtgggcta caccgcgtg tctgattaca aacaccactg gagcgatgtc 240  
 cttgttggcc tctgcaggg ggcaatgggt gctgccctca ctgtctgcta catctcagac 300  
 ttcttcaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360  
 agcctgtcac tgacgttgac cctgggcgag gctgacnaca accactatgg ataccgcgac 420  
 tctctctctt gagg 434

<210> 1591  
 <211> 439  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 409  
 <223> n = A,T,C or G

<400> 1591  
 gctttcgcca gaaaatgttg catgtcaaac aatatgtgat ccatactgtg tgtcgctcctt 60  
 ggggggtttat ttgacttttg cacaatgaca gccaacagtg agactgataa gcctgtaaaa 120  
 ataaaaaaaaat aagactaatc aaatagacat ggcatTTTTaa tctcaaagtg caaaatcatc 180  
 taactgaaaa tgacggcatt gagaaattcc agtggTTaaa aatgaatcaa aacttcatta 240  
 cgcaggcagt ggaagtgtgt tgaaagattt accaggggtg tcaagTTtta gacactcaga 300  
 aaggcaccat tctagccatc ttgattggat aacatgtata tacttatgtc cctacgatat 360  
 tcaaaagata atactgtttt agtacaaaac aatcaaaca ggcaaagant caaaaccaag 420  
 ccaacccaaa tatccccag 439

<210> 1592  
 <211> 74  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 53  
 <223> n = A,T,C or G

<400> 1592  
 tttttttttt taatgttcac agtccttgct ttatttccat ttgttcacac acncttttaa 60  
 aaaaaaaaaa aaaa 74

<210> 1593

<211> 288  
 <212> DNA  
 <213> Homo sapiens

<400> 1593  
 ccacccgaag caagattgca gatggcagtg tgaagagaga agacatattc tacacttcaa 60  
 agcttttggtg caattcccat cgaccagagt tgggtccgacc agccttggaa aggtcactga 120  
 aaaatcttca attggattat gttgacctct accttattca ttttccagtg tctgtaaagc 180  
 caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac acagtggatc 240  
 tctgtgccac gtgggaggcc gtggagaagt gtaaagatgc aggattgg 288

<210> 1594  
 <211> 455  
 <212> DNA  
 <213> Homo sapiens

<400> 1594  
 ccacacagac tcaccaagcc acagacttgt cttccacaag cacgttctta ccttagccac 60  
 gaagtgacca agccacacgt actaaagggt gaactcaaag atatgtacag ggtattaaac 120  
 aaataccaag gggaacagtt aacttcaata caaggtcaaa atcagcaaca agttctacaa 180  
 tccagtgtcg atatcagata caagcttcaa ggacaatttc ttttcgaagg cttattccag 240  
 tttcgtgagg ctagcatgag gtgtgtgcat ttgccagggg caaatttcta ttctcaatta 300  
 acccatgcag caaatgctac gcactgtgtg agtccgttta gaagcatttg cgggtggacga 360  
 tggagggggcc cgactcgctg tactcctgct tgctaatacca catctgctgg aaggtggaca 420  
 gtgaggccag gatggagcca ccgatccaca ccgag 455

<210> 1595  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 360  
 <223> n = A,T,C or G

<400> 1595  
 ccaggctacc ttcccactgg agacaggcag ggggacaggt gctaaggggac ctggcaggca 60  
 gggctggcag gccccatggc gcctgttcca gcagatgaca agcccagggtc agggtagagc 120  
 gggcaggagg ggggacgagg gctccacaa catgattttg tgtaaaatat ggcagcgaca 180  
 cacgctcagg gccgggaggt gggggttagg gtggggacgg cggcaacatc gtgtaaaaaa 240  
 gtgtcccagt tcccatagca aagagagctg tgaccgggtg ttcgagcttc tccagtacaa 300  
 gggggaaagc cgcccggcgg gggcggcggg caggacatc atttggtttc ctggtgctgn 360  
 cagtccg 367

<210> 1596  
 <211> 193  
 <212> DNA  
 <213> Homo sapiens

<400> 1596  
 ctgtttttca tgcgcctggt ggggaagacg cccattgaga cactgatcag agacatgctg 60  
 ctgtcgggga gtaccttcaa ctggccctac ggctcggggc agtgaccatg acggggccac 120  
 gtgtgctgtg gccaggcctg cagacagacc tcaagggaca gggaatgctg agggcccg 180

193

<211> 145

<212> DNA

<213> Homo sapiens

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ccatgctgga tgttctgctg cttagacctg atctgctgcc aattaccagg ggcagggtcaa 60
ggatgacctt cttggatoca ggaacgctaa catagatcag taaggaatat tcaactcgaa 120
ggatgttgca gcccaaggata gaagg                                     145
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<210> 1598

<211> 445

<212> DNA

<213> Homo sapiens

ctgcctataa	aactagactt	ctgacgctgg	gtccagctt	cattctcaca	ggtcatcacc	60
ctcatccggg	agagcagttg	tctgagcaac	ctctaagtcg	tgctcatact	gtgctgccaa	120
agctgggtcc	atgacaactt	ctggtggggc	gagagcaggc	atggaacaaa	atcccaagtt	180
agggctctcca	atgagcttcc	tagcaagcca	gaggaagggc	ttttcaaagt	tgtagttact	240
tttggcagaa	atgtcgtagt	actgaagatt	cttcttttcg	tggaagacaa	tggatttcgc	300
cttcactttc	ctgctcttaa	tatccacttt	gttgccacac	aacacaatgg	ggatgttttc	360
acacactcgt	accagatctc	tatgccagtt	aggcacattc	ttgtaagtaa	ctctcgatgt	420
tacatcaaac	attatgatqg	cacac				445

<210> 1599

<211> 142

<212> DNA

<213> Homo sapiens

<400> 1599

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cctgccccag ggggaagcac ggacccgaga cgacggcgat gaggaagggc tcttgacaca 60
cagcgaggaa gagctggaac acagccagga cacagacgcg gatgatgggg ccttgacagta 120
agcagcctga caggagcaat gg                                     142
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<210> 1600

<211> 297

<212> DNA

<213> Homo sapiens

<400> 1600

cctgcacttg	aacatggctt	tggttttaag	caacttctct	accctgaccc	tctctctggg	60
acagcgtttc	gggaggtttc	ttggcctcac	tgagagggat	gtggagctgc	tgtaccccg	120
caaggagaag	gtattctaca	gcctgatgag	ggagagcgcc	tacatgcaca	tccagtgcac	180
caagcctgac	accgttagct	ctgctctgaa	tgactctctc	gtgggtctcg	tgcctatat	240
tctagagaag	ttttccacct	qqaccaatac	qqaattccga	tacctggaag	atqgaag	297

<210> 1601

<211> 289

<212> DNA

<213> Homo sapiens

<400> 1601  
ctggagatga tcctcaacaa gccagggctc aagtacaagc ctgtctgcaa ccaggtggaa 60  
tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattgtt 120  
ctggttgctt atagtgtctt gggatcccac cgagaagaac catgggtgga cccgaactcc 180  
ccggtgtctt tggaggaccc agtcctttgt gcctcggaac aaaagcacia gcgaacccca 240  
gccctgattg ccctgcgcta ccagctacag cgtgggggtg tggctctgg 289

<210> 1602  
<211> 398  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 274, 312, 329, 332, 368  
<223> n = A,T,C or G

<400> 1602  
gggagggcag agggagaatg ggaagatcag gaagctctag attacttcag tgataaagag 60  
tctggaaaac aaaagtttaa tgattcagaa ggggatgaca cagaggagac agaggattat 120  
agacagttca ggaagtcagt cctcgcagat cagggtaaaa gttttgctac tgcattctac 180  
cggaatactg agaaggaagg actcaagtac aagtccaaag tttcactgaa aggcaataga 240  
gaaagtgatg gatttagaga agaaaaaaat tatnaactta aagagactgg atatgtagt 300  
gaaaggccta gnactacaaa agataagcnc anagaagaag acaaaaattc tgaaagaata 360  
acagtaanga aagaaactca gtcacctgag caggtaaa 398

<210> 1603  
<211> 438  
<212> DNA  
<213> Homo sapiens

<400> 1603  
ctggtgatct gctttcttac cctaactctt gacaaatgag tcgtctacta ttttaaagag 60  
tctggaggtc tctgactctg ccataacaat aacctgctgt taattttataa cacagatttt 120  
tggttggaag agccttattt gaaatacact ttgattcatt ttcttaaata tttatattct 180  
tttcttgctt acttcagggt tggtagctta gttggaagt ccagcacctg gcacctattc 240  
atatagaaca ggctgtactc aagacaactt ctagcattta cttaagact tatataattt 300  
atctctattt tgtgtgtact atagtcttgt gcatatgtag ttgaacacac agtgaaatat 360  
atgtctctct ttgtggatgt gcggcctaaa aatttgaatg tctggtgaga gagagccatg 420  
tgtataggtc agagaaaa 438

<210> 1604  
<211> 297  
<212> DNA  
<213> Homo sapiens

<400> 1604  
cctgcacttg aacatggctt tggttttaag caacttctct accctgacct tcctcctggg 60  
acagcgtttc gggagggttc ttggcctcac tgagagggat gtggagctgc tgtaccccg 120  
caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180  
caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240  
tctagagaag tttccacctt ggaccaatac ggaattccga tacctggagg atggagg 297

<210> 1605



<211> 451  
 <212> DNA  
 <213> Homo sapiens

<400> 1605  
 ggaaaggcta ttgtttctcg acagttttgtg gaaatgaccc gaactcggat tgaggggctta 60  
 ttagcagctt ttccaaagct catgaacact ggaaaacaac atacgtttgt tgaaacagag 120  
 agtgtaagat atgtctacca gcctatggag aaactgtata tggtagctgat cactacaaaa 180  
 aacagcaaca ttttagaaga tttggagacc ctaaggctct tctcaagagt gatccctgaa 240  
 tattgccgag ccttagaaga gaatgaaata tctgagcact gttttgattt gattttttgct 300  
 tttgatgaaa ttgtcgcact gggataccgg gagaatgtta acttggcaca gatcagaacc 360  
 ttcacagaaa tggattctca tgaggagaag gtgttcagag ccgtcagaga gactcaagaa 420  
 cgtgaagcta aggctgagat gcgtcgtaaa g 451

<210> 1606  
 <211> 272  
 <212> DNA  
 <213> Homo sapiens

<400> 1606  
 ccggagccca cgggtggctcat ggctgccaga gcgctctgca tgctggggct ggtcctggcc 60  
 ttgctgtcct ccagctctgc tgaggagtac gtgggcctgt ctgcaaacca gtgtgccgtg 120  
 ccagccaagg acagggtgga ctgcggctac ccccatgtca cccccaagga gtgcaacaac 180  
 cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gcccctgcag 240  
 gaagcagaat gcaccttctg aggcacctcc ag 272

<210> 1607  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<400> 1607  
 ccaggctggg ctcaaactcc tcacctcaac tgatccgccc accttggcct cccaaagtgc 60  
 tgggattata ggtgtgagcc accgtgcccc aagttaagta tttttgatca agtggtttgt 120  
 cttttgtgca aggcattttgt ggctctgtca tagcagagga aaacaaaaca tgccatcaa 180  
 atgaatcaag tccgacctct tctcatattg agcaactaga ggtctaggaa catttccct 240  
 acctgtcatt ctcatctggc ataccagggtg tacatactcc ttcttattct cctctgttac 300  
 caagatgttg gccccattgg gtttgaggtc acgaacttca caaactccaa actcttggac 360  
 ctcaagtgtg aagggtgaggt catagcctag tgtggagaca tcattttcca gcagataaac 420  
 cagaccttgg tagaagtggg aatc 444

<210> 1608  
 <211> 189  
 <212> DNA  
 <213> Homo sapiens

<400> 1608  
 caaaatccaa aacttctctt gaaaagttca gggaccgtcc aggggagatg gggaggagat 60  
 atggagttag tcacctgtct cagaagatgc cagcttctct ctccagggtg cttagttggc 120  
 tttgccacc cctcactccc caggagagctc tggggacagc ttcctcgac ccctgtccca 180  
 cccacacag 189

<210> 1609  
 <211> 426

<212> DNA  
<213> Homo sapiens

<400> 1609  
cttttggttat ccttagagga ctcaactggtt tcttttcata agcaaaaagt acctcttctt 60  
aaagtgcact ttgcagacgt ttcactcctt ttccaataag cttgagttag gagctttttac 120  
cttgtagcag agcagtatta acacctagtt ggttcacctg gaaaacagag aggctgaccg 180  
tgagggtggcg acctcagtgg agaaatgtaa agactgaatt gaatttttaag ctaatgtgaa 240  
atcagagaat gttgtaataa gttaaagcct taagagtatt taaaatatgc ttccacattt 360  
caaaatataa aatgtaacat gacaagagat tttgcgtttg acattgtgtc tgggaaggaa 420  
gggcca 426

<210> 1610  
<211> 447  
<212> DNA  
<213> Homo sapiens

<400> 1610  
cagggctata gtgcgctatg ttgatctggt gttcatgcta agttccgcat caatatggtg 60  
acttcttggg agtgggggac caccaggttg cctaaggagg ggtgaacctg cctacgttgg 120  
aaatagagct ggtcaaaaact cctgtgctca tcagtagtag aattgcacct gtgaatagcc 180  
accgccctcc agcatgggca acatagcaag accctgcctc ttaagataaa aattggaaaa 240  
cactggtagg aaaaaaaggc tgtttgggtc aaataagtct ggattgggta taaatgacac 300  
aaaactatca tgaatttgaa agcatttcta atttcttgaa agtctgaaaa agtttaaaaca 360  
gaatttttagc tgaaaagtcc tgaaagacat ttgaaaaaaa acagcaagaa cacttaaaac 420  
tattcaaggt ttgggctggg cacagtg 447

<210> 1611  
<211> 238  
<212> DNA  
<213> Homo sapiens

<400> 1611  
ccaccggggt tgacctctct cgctagcagg gccacccag ctcaactccc gcgtcttcca 60  
tccccctctag gattcccatt gtcccctact ccagcactag gcaggcacc ccagcccact 120  
gagactccca ccacgaagga cccagccct ctctcagcca acacggcccc gccaccgtc 180  
tcagacatcg tgcttcttct ggtgggccag gagtctctcc tcgtcgtcga aggtctgg 238

<210> 1612  
<211> 293  
<212> DNA  
<213> Homo sapiens

<400> 1612  
ctgctgcttg tctctcggg agagggtttc ccactctgag cgggtgggaa ggcaatgcc 60  
aacatccggg aaaaaataaa ccactgtctc cacatgagct ggaactgtac gcccttgtg 120  
ggtctctca gggcgatggt agcgaatctc tgcaaaacgg taccattgtg tgcacacact 180  
tagatcaatg cctgtcagag ccttacaaca acgaatagca gtcttaatca acacagagg 240  
atctttttct gggctctggc catccaacga aggagaccag tggcccccaa tgg 293

<210> 1613  
<211> 224  
<212> DNA

<213> Homo sapiens

<400> 1613

```
ctggattgac cccaaccaag gctgcaacct ggatgccatc aaagtcttct gcaacatgga 60
gactggtgag acctgcgtgt accccactca gcccagtgtg gcccagaaga actggtacat 120
cagcaagaac cccaaggaca agaggcatgt ctggttcggc gagagcatga ccgatggatt 180
ccagttcgag tatggcggcc agggctccga ctctgccgat gtgg 224
```

<210> 1614

<211> 439

<212> DNA

<213> Homo sapiens

<400> 1614

```
ctccaccctg gcgatggctc cctggctcta ctttctctct caaactggct ttttctcatt 60
cctttgactc cgccagactt cctcgccccc atgacctggt gttgtgtctg atcaccccaa 120
cattcctggc tgcccaatgt ggggcaatga agaccccagt gaagggaatgc tagagtgtgt 180
gaaagtggag gacgcacgtt caaaggacac ctgaggacgt ctcaaagaag ctcggcggga 240
gagctgagcg ctcggaagaa ccaagaatca tctcttttga aaaatcgatt catcaaata 300
atcttcggcc aacaactgtt caagaaggat tcaaatatca caggttccaa gaagtaaagc 360
tttgagggtc acaaaattag caatagaagc tgggttccgc catatagatt ctgctcattt 420
atacaataaa tgaggagca 439
```

<210> 1615

<211> 237

<212> DNA

<213> Homo sapiens

<400> 1615

```
aggcactcct ggaagtgggt cagtcagggt gcaaaaacat tgaacttgct gtcatgaggc 60
gagatcaatc cctcaagatt ttaaatectg aagaaattga gaagtatgtt gctgaaattg 120
aaaaagaaaa agaagaaaac gaaaagaaga aacaaaagaa agcatcatga tgaataaaat 180
gtctttgctt gtaattttta aattcatatc aatcatggat gagtctcgat gtgtagg 237
```

<210> 1616

<211> 266

<212> DNA

<213> Homo sapiens

<400> 1616

```
ctgggctcta gtttcattcc atctgtcatt ctcaggtaac agggacacat gtccaagtgt 60
tgccccccgt ggcattgatt tagctttgtt gataggcatt gcattctttg tgtaatatgc 120
aataatggca tgaccagatt catgatatgc tgtgatggtt ttgtttttgt tatcaatttc 180
cacattctt ctttcaggcc ccattagaat tttgtctttg gaaaactcca gctccttcatt 240
ggtaaccatt tcttttccat caacag 266
```

<210> 1617

<211> 185

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 62

<223> n = A,T,C or G

<400> 1617

```
ccatggctag gtttatagat agttgggtgg ttgggtgtaa tgagtgaggc aggagtccga 60
gnaggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120
ctttagtgtt gtgtatggtt atcatttgtt ttgaggtttag tttgattagt cattgttggg 180
tggtg                                           185
```

<210> 1618

<211> 354

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 201, 214, 225, 230, 232, 241, 245, 249, 278

<223> n = A,T,C or G

<400> 1618

```
ctgttaacag ataagtttaa cttgcatctg cagtattgca tgttagggat aagtgccttat 60
ttttaagagc tgtggagttc ttaaatatca accatggcac tttctcctga ccccttcctc 120
aggggatttc aggattgaga aatttttcca tcgagccttt ttaaaattgt aggacttggt 180
cctgtgggct tcagtgatgg ngatagtaca catnctactc agagngcatn tntgcatctt 240
ntaanatana tttcttaaaa gcctctaaag tgatcagntg ccttgatgcc aactaaggaa 300
atttgtttag cattgaatct ctgaaggctc tatgaaagga atagcatgat gtgc       354
```

<210> 1619

<211> 170

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 145, 146

<223> n = A,T,C or G

<400> 1619

```
ctgtgctgtg gagagaagct gatgttttgg tgtattgtca gccatcgtcc tgggactcgg 60
agactatggc ctgcctccc caccctctc ttggaattac aagccctggg gtttgaagct 120
gactttatag ctgcaagtgt atctnncttt tatctggtgc ctctcaaac       170
```

<210> 1620

<211> 386

<212> DNA

<213> Homo sapiens

<400> 1620

```
cctgttgatt gcatactgta gaagatttga tgttcagact ggttcttctt acatatacta 60
tgtttctgtc acagttggta aatttttgtt tttctttgta ttaaatgttg aattgtattg 120
tctggaggaa aagacagagg tctaaaaata aagaaggagt acagtttggg catggtggtt 180
cacccttggg gtcctagcac tttggggggc aaggcaggca gattgcttga gcccaggagt 240
tctagatgag cctgggcaac atagtgaagc cccatctcta aaaaaacagt tttagggcc 300
ggcacagtgg ctcacacctg taagcccagc actttgggag gccgaggcag gcagatcata 360
agggcaagag attgagacca tcctgg                                           386
```

<210> 1621  
 <211> 346  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 267  
 <223> n = A,T,C or G

<400> 1621  
 ccaattctgc ccgttccccg tgggcccaaca aactggggt tgtatgcgtc tggaacctg 60  
 tgatagtctt cggtttgccg gcctggccca ccacatccac tgcttggccc acacggacag 120  
 aactgggcaa tggccgcagc tcctcatcaa acgtaaccag cattcggggc tgcattggcag 180  
 ccaccagccc atacaatata tagtgtgatt tgcctagaat aatgtttcga acatccagga 240  
 aagagacaag cacagtgcgc agtccancca cggccacctg gtcataaagc tgccgggtcgc 300  
 tgtggtaggg gcagagggtg aggggtgcct tcctaaatg tgtcag 346

<210> 1622  
 <211> 366  
 <212> DNA  
 <213> Homo sapiens

<400> 1622  
 ggaagtttgt gctctctgcg tggctaagtt ttccacctac taggacgggg gtgggggtggg 60  
 gagaacaggt gtctttctaa aatacagcac aagctacagc ctgcgtccag ccataaccca 120  
 ggagtaacat cagaaacagg tgagaatgac cactttaact caccggggccc gtcgcactga 180  
 aataagcaag aactctgaaa agaagatgga aagtgcaggaa gacagtaatt gggagaaaag 240  
 tccagacaat gaagattctg gagactctaa ggatatccgc ctactcttta tggaagaagt 300  
 attgcttctg ggactaaaag ataaagaggg gtacacatct ttctggaatg actgcataatc 360  
 atcagg 366

<210> 1623  
 <211> 165  
 <212> DNA  
 <213> Homo sapiens

<400> 1623  
 ctgttgattg gctgtgacac tgctttgtgt catcttctta ccatgatcaa aggcgaagga 60  
 agggatctct tttgggacat tgtgattgtt ttagcagaga gagaaagaga tgaaatacac 120  
 ttcggttttc tcttaaaaga tgcattgata atacagtgtc ttaag 165

<210> 1624  
 <211> 227  
 <212> DNA  
 <213> Homo sapiens

<400> 1624  
 ccaatgcccg gagcaggccc tttttccatc cctgtcggg tgagctgggc aactatgtca 60  
 acaaacggaa taccacgtgg caagccgggc acaacttcta caacgtggac atgagctact 120  
 tgaagaggct atgtggtacc ttcttgggtg ggcccaagcc accccagaga gttatgttta 180  
 ccgaggacct gaagctgcct gcaagcttcg atgcacggga acaatgg 227

<210> 1625  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

<400> 1625  
 ctgtagcttt tgtgggactt ccactgctca ggcgtcaggc tcaggtagct gctggccgcg 60  
 tacttgttgt tgctttgttt ggagggtgtg gtggtctcca ctcccgcctt gacggggctg 120  
 ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180  
 agtgtggcct tgttggttg aagctcctca gaggagggtg ggaacagagt gaccgagggg 240  
 gcagccttgg gctgacctag gacggtcagt ttggtccctc cgccgaacac ccgaagataa 300  
 ttagtgctgt ctggtgagta acaatagtag tcaccttcat cttccacctg ggccccagtg 360  
 atggtcaagg tgg 373

<210> 1626  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

<400> 1626  
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60  
 cttgaggtca ggagttcgag accagcctcg ccaacatggt gaaaccccat ttctactaaa 120  
 aatacaaaaa ttagccaagt gtggtggcat atgcctgtaa tcccaactac tcagaaggcc 180  
 gaggcaggag aattacttga acgcaggaga atcactgcag ccctggaggc agaggttgca 240  
 gtgagccgag attgcaccac tgtactccag cctgggtgac agagcaagac tccatctcag 300  
 taaataaata aataaataaa aagcgctgca gtagctgtgg cctcaccctg aagtcagcgg 360  
 gccagg 367

<210> 1627  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 1627  
 ctggataagg acatcaatac cttctctatg cgtgtcaggg tgtggtacgg gtatcacttt 60  
 ccggagctgg tgaagatcat caacgacaat gccacatact gccgtcttgc ccagtttatt 120  
 ggaaaccgaa gggaactgaa tgaggacaag ctggagaagc tggaggagct gacaatggat 180  
 ggggcccaagg ctaaggctat tctggatgcc tcacggtcct ccatgggcat ggacatatct 240  
 gccattgact tgataaacat cgagagcttc tccagtcgtg tgggtgtctt atctgaatac 300  
 cgccagagcc tacacactta cctgcgctcc aagatgagcc aagtagcccc cagcctgtca 360  
 gccctaattg gggaagcggg aggtgcacgt ctcatcgac atgctggcag cctcaccaac 420  
 ctgg 424

<210> 1628  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<400> 1628  
 tcgactgtta tagcttagaa agcaacacta ctactatgag actataaaac attaaaactat 60  
 tttaagaaaa ccacgctgtg gaaaaatgga gccatttttg tcaaaaagtg gctcaaagca 120  
 caaaactgct cagatgttca agagtcctag gagtctgggc tgcacagtat taaggggtga 180  
 gaggagaccg acagcctgtt tgaatcaggc ttgtgagccc agctcatctg acaacttcaa 240  
 agagcttctc tgcctatata ttccaccgtt tagcataaga caccacttta cgctatttac 300

aagtctcctt ttgg

314

<210> 1629

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 284

<223> n = A,T,C or G

<400> 1629

```
ctggaccagc accccattga cgggtacctc tcccacaccg agctggctcc actgcgtgct 60
cccctcatcc ccatggagca ttgcaccacc cgctttttcg agacctgtga cctggacaat 120
gacaagtaca tcgccctgga tgagtgggcc ggctgcttcg gcatcaagca gaaggatata 180
gacaaggatc ttgtgatcta aatccactcc ttccacagta ccggattctc tctttaaccc 240
tccccttcgt gttttccccc aatgtttaaa atgtttggat ggtntgttgt tctgcctgga 300
gacaaagggtg ctaacataga tttaagttga ataacattaa cggtgctaaa aaatgaaaaa 360
ttctaaccce agacatgaca ttcttagctg taa 393
```

<210> 1630

<211> 317

<212> DNA

<213> Homo sapiens

<400> 1630

```
ctgcaagaat atcagaaatc aatacaaaaca agtattgaca ggtgttacag acatgcaaaa 60
tatecttcaa tgcaacgaat ttttaagaaa tcagctagcc tatattaatc agatgtttta 120
ggtcaaacca agtttccatc tcgggctcag tgaaatagta ttaactcatt gagtctcctt 180
tccccagga atgttgggaa tggcagaaca gaaagagcta tcaactcctta aattctttta 240
tgcgagtgtt actccaacac ttattttact tggtttactt ggaatgtatg agaggaaaact 300
gatgtttttt acaatgg 317
```

<210> 1631

<211> 262

<212> DNA

<213> Homo sapiens

<400> 1631

```
ccttaggcaa gtcaccttac ttatctaaga ctgtttcccc acctggaaga tgccctacaa 60
gcctcctgtg gctgtgttta gaaagcatgc ccggcctttc ttgacagcca gccaccccag 120
atgatggcag ggcaaggaag actgttagga gtcagagtgc tcccctcagg tggaaggaaa 180
ctgggccaac tctactttgt aagccatagg gtgccaggta gcccggccac cctgagcctg 240
tgctccact gccccgcgt gg 262
```

<210> 1632

<211> 138

<212> DNA

<213> Homo sapiens

<400> 1632

```
ctggaattaa ttcttcgaca actccagacc gaccttcgga aggaaaaaca agacaaggcc 60
gttctccaag cagaagtgca gcacctgaga caggacaaca tgagactgca ggaggagtcc 120
```

cagaccgcga cagctcag

138

<210> 1633

<211> 192

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 17, 55, 80, 81, 94, 95, 106, 107

<223> n = A,T,C or G

<400> 1633

```
ccttgaaggg acctcanagc aaaggaagag acctgggtgt ggtgaggcat cccanggcac 60
ggaagggacc ggttgtgctn ngggaatcca ctgnccctc cttggnnaaa aaagcacaac 120
acatcatata tattaccag accagaagcg ctggcccaa gtctcccaa cctggtcggg 180
ggaacctcct gg                                     192
```

<210> 1634

<211> 447

<212> DNA

<213> Homo sapiens

<400> 1634

```
ctgcttttaa aggtcttaaa tcaactcgaat accttgactt gagcttcaat cagatagcca 60
gactgccttc tggctcctc gtctctcttc taactctcta cttagacaac aataagatca 120
gcaacatccc tgatgagtat ttcaagcgtt ttaatgcatt gcagtatctg cgtttatctc 180
acaacgaact ggctgatagt ggaatacctg gaaattcttt caatgtgtca tccctgggtg 240
agctggatct gtcttataac aagcttaaaa acataccaac tgtcaatgaa aaccttgaaa 300
actattacct ggaggtcaat caacttgaga agtttgacat aaagagcttc tgcaagatcc 360
tggggccatt atctactcc aagatcaagc atttgcgttt ggatggcaat cgcactctcag 420
aaaccagtct tccaccggat atgtatg                                     447
```

<210> 1635

<211> 364

<212> DNA

<213> Homo sapiens

<400> 1635

```
gttttatttg agacataaaa acacatgtgt ttctattaca tagtgtggg tttagggtcc 60
tggtttctaa gacaagactt tatttcaccc tgtatcacag cttcctggga aatgaattag 120
ggagcaagag acggcctggc aagaaaatca ttattgttgc tgggaagttg caaagaaagg 180
ggagagttaa ttcaaattag tgtaacagag cccccaggat gaagagagtg gtgcagggaa 240
aaggtctaaa ttcttggtgt tgggtggggac actggcacat cccacagcaa ggactcagcc 300
ctcaacggcg gcggctgggt cttgggaggg gagtgggtgg agggtaaggg ctcctcagct 360
ccct                                     364
```

<210> 1636

<211> 399

<212> DNA

<213> Homo sapiens

<400> 1636

```
ctggctggct agactgtttg tgcgccaaga ggatggctcag cgctgctttc cagcctggct 60
```



```

ctgctggggc gctggcatct ggttcagttc caccattctc cctgctttct ttgccaagt 120
tgatattcac ccaagggcac cagtctctat gctgagaggt gggatcaaag aagcttcggg 180
aagatgtgtc cgaactgctg gaggagcaga ggcgagctcg cttggctttc cgcagagggc 240
tagatggtag ctccaggcca ggggtgtctc ctgttcccat gcttcgggtc actgggagag 300
ttctgggtgg ggggctagca gcctctggct caggacggtc aacaggactg gaagagtccc 360
agctccgagt tcgagagaca atgggaccag ggctctttt 399

```

<210> 1637

<211> 246

<212> DNA

<213> Homo sapiens

<400> 1637

```

ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60
agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatata ttaacaaagc 120
aatagctctc aagcagcaga gcatctcgag gaagaaagct tgcccggctg ccatcccatc 180
atgccagagc gtgcagtgtc cacccttgac tacgctgggg aattgctgat tttttgaaaa 240
agcttg 246

```

<210> 1638

<211> 453

<212> DNA

<213> Homo sapiens

<400> 1638

```

ccaagagttc tccactgtga agactgaaag gacctggtga catttcggca tcagtcctgt 60
taccacttgg aggtaacaga agcaggctcg tgcctcctt taattctacc aactacatg 120
actcgcaatt ggttctgaaa ttagaacgtt caccatcgta cttaaaatct taggggcatg 180
aagagtcagc tagaacaagg aaaaagaaaag tcgcaggtag taggtaagta ggtgggcaca 240
tgaaaagcca agctgctctg tccaacacca gtgtacatgt gctttaacta aatgaactcc 300
agaggccaac agcagcagac ctgctcaatt caccttccaa atcagaacaa gacccaaaag 360
ctcaggcttg agttgtcaac tatgcatagg ttccgccagt gatgaggagc tcgtaagcag 420
gatctctact ccttctgcac aacacgatgc aag 453

```

<210> 1639

<211> 197

<212> DNA

<213> Homo sapiens

<400> 1639

```

tttgctgttc gtgatatgag acagacagtt gcggtgggtg tcatcaaagc agtggacaag 60
aaggctgctg gagctggcaa ggtcaccaag tctgccaga aagctcagaa ggctaaatga 120
atattatccc taatacctgc caccctctc ttaatcagt gtggaagaac ggtctcagaa 180
ctgtttgttt caattgg 197

```

<210> 1640

<211> 278

<212> DNA

<213> Homo sapiens

<400> 1640

```

ccagagcggg gaggccacc acctcgaact ctgggaattc gagccacagc tctgccagta 60
ccccaagact cagcactagt ctgatgacct gctaattcac tgacagcata gggctgtctg 120
ttgtttttgc gcaagttggg gtgaacaaag ttcacaatat ctggtcgaat aggagccttg 180

```

aatacagcag gcaaagtgac atttttgcc gatgactccc ccttttcgga gtacaccgat 240  
atcagtgggc gagcgcacgc catggcggac ctcggccg 278

<210> 1641  
<211> 227  
<212> DNA  
<213> Homo sapiens

<400> 1641  
ccattgttcc cgtgcatcga agcttgcagg cagcttcagg tcctcggtaa acataactct 60  
ctgggggtggc ttggggccac ccaggaaggt accacatagc ctcttcaagt agtcatgtc 120  
cacgttgtag aagttgtgcc cggcttgcca cgtggtattc cgtttgttga catagttgac 180  
cagctcatcc gacaggggat ggaaagaggg cctgctccgg gcattgg 227

<210> 1642  
<211> 299  
<212> DNA  
<213> Homo sapiens

<400> 1642  
ctgcacatca aggacatctt caggaagttc aggattgccg tagctaaact gaaaaccacc 60  
atccatggac tctccaaacc aaacgtgttt cttctcagca ctagaatctg tccaccagtg 120  
tttccgtgga acattcaaag gattggcact tatgcatgtt tccccagttt ccatattaca 180  
gaataccttg atagcatcca atttgcattc ttggttaggg tcaacccagt attctccact 240  
cttgagttca ggatggcaga atttcaggtc tctgcagttt ctacgagggt ttttacgag 299

<210> 1643  
<211> 301  
<212> DNA  
<213> Homo sapiens

<400> 1643  
ccaagggcta caatgagcag cgcattcagc agaacgtgca ggtttttgag ttccagttga 60  
ctgcagagga catgaaagcc atagatggcc tagacagaaa tctccactat tttaacagtg 120  
atagttttgc tagccacctt aattatccat attcagatga atattaacat ggagagcttt 180  
gcctgatgtc taccagaagc cctgtgtgtg gatggtgacg cagaggacgt ctctatgccg 240  
gtgactggac atatcacctc tacttaaatc cgtcctgttt agcgacttca gtcaactaca 300  
g 301

<210> 1644  
<211> 365  
<212> DNA  
<213> Homo sapiens

<400> 1644  
ctggtgagcg aaggatggga gcagagaaca gagctaaaac ccctggtttt cctttcccca 60  
gatgtaaagc ctgctagctg gaactcacag aagattggaa caaaaagata ggagatggac 120  
acctggggga ctgctccagc acgaaggga gcgatgagca tcacacagca gggccattgc 180  
aggggacagg tgctgtaatt cctgcccaga gaacttgaaa gcttacagtg tgctcacagg 240  
aaggaatcgg ctgagctagt ccagaaattg ctgcatttcc catattactt agttctttat 300  
tcactcctgtg gtaaagagtc acccttgttt tccgtatcta taaaactgaa agacttaaaa 360  
tttac 365

<210> 1645

<211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 1645  
 ctggtgctgg aactgcagaa agttaagcag gagaacatcc agctagcggc agacgcccgg 60  
 tctgctcgtg cctatcgaga cgagctggat tccctgcggg agaaggcgaa ccgcgtggag 120  
 aggctggagc tggagctgac ccgctgcaag gagaagctgc acgacgtgga cttctacaag 180  
 gcccgcattg aggagctgag agaagataat atcattttta ttgaaaccaa ggccatgctg 240  
 gaggaacag 249

<210> 1646  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 398  
 <223> n = A,T,C or G

<400> 1646  
 ctgtggccgg attgatgggg cccccacttc ctagggtcga aggcaagttg aaggaagcag 60  
 caggagtacc ggaatgaaaa ccttgtttct caaaggactg ctgggttttg gagtacacag 120  
 aacccgagat atctggcacg ccgctgttac tggaggtgac tgaacaccca gtgttgatc 180  
 catgagaccc atatccactc ggctgttgga aaggggtggc cgatgcattc aactgacat 240  
 tcacaccatg ctgcttgga gaggtaggag ccacagggaa cacagcaggc ccatactgga 300  
 aggtgctggg gaggcccggg acccctgtat agtatggcag gctggtgtaa actgtagcca 360  
 ggaggcagcg ccgggttcag gaatgtctgc tgcgtgnat ggtgagtctg cgtctggtt 420  
 ctggtggggg tgg 433

<210> 1647  
 <211> 451  
 <212> DNA  
 <213> Homo sapiens

<400> 1647  
 ccagcttgca agcacgctgg caaatctctg tcaggtcagc tccagagaag ccattagtca 60  
 ttttagccag gaactccaag tccacatcct tggcaactgg ggacttgccg aggttagcct 120  
 tgaggatggc aacacgggac ttctcatcag gaagtgggat gtagatgagc tgatcaagac 180  
 ggccaggctc gaggatggca ggatcaatga tgtcaggccg gttggtagcg ccaatgatga 240  
 acacattttt ttttggtggc atgccatcca tttctgtcag gatctggttg atgactcgg 300  
 cagcagcccc accaccatct ccaatgttac ctccacgagc cttggcaatc gaatccagct 360  
 catcaaagaa tagcacacag ggggcagctt ggccggcctt gtcaaagatt tctctgacat 420  
 tggcctcaga ctccccaac cacatggtga g 451

<210> 1648  
 <211> 176  
 <212> DNA  
 <213> Homo sapiens

<400> 1648  
 cctaaacgag gatttcagct tccattatgc ccaactccag tccaacatca ttgaggcgat 60  
 taatgagctg ctagtggagc tggaagggac aatggagaac attgcagccc aggctctgga 120

gcacattcac tccaatgagg tgatcatgac cattggcttc tcccgaacag tagagg 176

<210> 1649

<211> 435

<212> DNA

<213> Homo sapiens

<400> 1649

```
tgtggctgtg ccgttggtcc tgtgcggtca cttagccaag atgcctgagg aaacccagac 60
ccaagaccaa ccgatggagg aggaggaggt tgagacgttc gcctttcagg cagaaattgc 120
ccagttgatg tcattgatca tcaatacttt ctactcgaac aaagagatct ttctgagaga 180
gctcatttca aattcatcag atgcattgga caaaatccgg tatgaaagct tgacagaccc 240
cagtaaatta gactctggga aagagctgca tattaacctt ataccgaaca aacaagatcg 300
aactctcact attgtggata ctggaattgg aatgaccaag gctgacttga tcaataacct 360
tggtactatc gccaaagtctg ggaccaaagc gtcatggaa gctttgcagg ctggtgcaga 420
tatctctatg attgg 435
```

<210> 1650

<211> 246

<212> DNA

<213> Homo sapiens

<400> 1650

```
ccatgtctgt attgtaactg gtaaaaggct tcaagtcaga ttgatgatca agaaaagtca 60
aaacccagac ccaagattgg gaaagcaggt ggtggttcca agctttttaa aaattattga 120
agctctccat cctgttctgt gagtgtgtct tctctttctc ctccacgtca tagccgtgac 180
ccaccgttca tctctgtctt tgcgtaaaga tgaccgatgg agtccaaagc caagtggctt 240
caccag 246
```

<210> 1651

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 171, 172, 303, 344, 354, 357, 366, 367, 379, 391

<223> n = A,T,C or G

<400> 1651

```
cggcaagttc tcccaggaga aagccatggt cagttcgagc gccaaagaccg tgaagcccaa 60
tggcgagaag ccggacgagt tcgagtcagg catctcccag gctcttctgg agctggagat 120
gaactcggac ctcaaggetc agctcaggga gctgaatatt acggcagcta nngaaattga 180
agttggtggt ggtcggaaaag ctatcataat ctttgttccc gttcctcaac tgaaatcttt 240
ccagaaaatc caagtcgggc tagtacgca attggagaaa aagttcagtg ggaagcatgt 300
cgnctttatc ggctcagagg aggaattctg cctaagccaa ctcaaaaaag ccgnacnaaa 360
aattanngca aaaagcgtnc caggagccgt nctctgacag 400
```

<210> 1652

<211> 338

<212> DNA

<213> Homo sapiens

<400> 1652

<400> 1655

```

atgcatgctc gagcgggccgc cagtgtgatg gatatctgca gaattcgccc tttcgagcgg 60
ccgcccgggc aggtcctact cttctccgtc cattgtacta tctgcccgtg gtgggggatgg 120
cagtaggatc atatttgatg acttccgaga agcatattat tggctccgtc ataatactcc 180
agaggatgcg aaggtcatgt cctgggtgga ttatggctat cagattacag ctatggcaaa 240
ccgaacaatt ttagtggaca ataacacatg gaataatacc catatttctc gagtagggca 300
ggcaatggcg tccacagagg aaaaagccta tgagatcatg agggagctcg atgtcagcta 360
tgtgtcggtc atttttggag gacctcggcc gcgaccacgc taagggcgaa ttccagcaca 420
ctggcgcccg ttactagtgg atccgagctc ggtaccaagc ttggcgtaat catggtcata 480
gctgttt                                     487

```

```

<210> 1656
<211> 514
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 55
<223> n = A,T,C or G

```

```

<400> 1656
atgcatgctc gagcgggccc cagtgtgatg ggatatctgc agaattcgcc cttancgtgg 60
tcgcgggcca ggtcctaccc ataatccaga gaggcttgcc cagaggagga ctacgtgggg 120
gacgtgccac cagaacccta cttggggggc ggatgtcact ccgagggtcaa aacctgctcc 180
gaggtggacg agccgtagct ccccgaaatg gcttaagaag aggtggtggt cgagggtcgtg 240
gaggtcctgg gagagggggc ctagggcgtg gagctatggg tcgtggcgga atcggtggta 300
gaggtcgggg tatgataggt cggggaagag ggggctttgg aggccgaggg cgaggccgtg 360
gacgagggag aggtgccctt gctcgccctg tattgaccaa ggagcagacc tgcccggggc 420
gccgctcgaa gggcgaattc cagcacactg gcggccgtta ctagtggatc cgagctcggg 480
accaagcttg gcgtaatcat ggtcatagct gttt                                     514

```

```

<210> 1657
<211> 605
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 78, 91
<223> n = A,T,C or G

```

```

<400> 1657
atgcatgctc gagcgggccgc cagtgtgatg gatatctgca gaattcgccc tttcgagcgg 60
ccgcccgggc aggtccanac gctgacattg nttctgagtc cttaaagcagg aaggatttga 120
aatcctggag cttggcagtc ttgctcttca cctctaagcc aatggtgacc ccttcatcta 180
taaagtcac aactctccgg aagtcatect cacggaactg tcgagaagtt aaggctgggg 240
ccccaaaggc caggccggcc ggtgtgatgg cacttcggtc tccaggacag gtgttcttgt 300
tggcagtgat ggatacaagc tctagcacc gctcagccc agctccatcc aggcccttgg 360
gccgcaggtc caccagcacc aggtggttgt cagtaccacc tgataccagt gagtagcctc 420
gccctagcag ggcattctgc atggcccag cattcttcag aacctgcagg gagtactccc 480
ggaacatggg ggtgcaggac ctcgcccgcg accacgctaa gggcgaattc cagcacaactg 540
gcggccgtta ctagtggatc cgagctcggg accaagcttg gcgtaatcat ggtcatagct 600
gtttc                                     605

```

<210> 1658  
 <211> 784  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 3, 4, 10, 19, 22, 53, 76, 85, 87, 149, 184, 713, 747  
 <223> n = A,T,C or G

<400> 1658  
 agnnttcgcn cggccctcna gntgcatgct cgagcggccg cgcagtgaga tgnatatctg 60  
 cagaattcgc ccttancgtg ggcgnangca tgacgctcgg gatcagaact aaaacaagtg 120  
 agatcacccc tctaattatt tctgaactng gttaataaaa gcttataaga tttttatgaa 180  
 gcanccactg tatgatattt taagcaaata tgttatttaa aatattgatc cttcccttgg 240  
 accaccttca tgttagttgg gtattataaa taagagatac aaccatgaat atattatggt 300  
 tatacaaaat caatctgaac acaattcata aagatttctc ttttatacct tcctcactgg 360  
 cccctccac ctgcccatag tcaccaaatt ctgttttaaa tcaatgacct aagatcaaca 420  
 atgaagtatt ttataaatgt atttatgctg ctagactgtg ggtcaaatgt ttccattttc 480  
 aaattattta gaattcttat gagtttataa tttgtaaatt tctaaatcca atcatgtaaa 540  
 atgaaactgt tgctccattg gagtagtctc ccacctaaat atcaagatgg ctatatgcta 600  
 aaaagagaaa atatgggtcaa gtctaaaatg gctaattgtc ctatgatgct attatcatag 660  
 actaaccgac atttatcttc aaaacaccaa attgtcttta gaaaaatta atngtgatta 720  
 ccaggtagaa ggacctgccc gggcggnccg ctcgaaaggg ccgaaattcc agccccacct 780  
 gggc 784

<210> 1659  
 <211> 789  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2, 4, 19  
 <223> n = A,T,C or G

<400> 1659  
 tngngccctc tagatgcang ctcgagcggc cgccagtggt atggatatct gcagaattcg 60  
 cccttagcgt ggtcgcgggc gaggtccatt aaagataagt ttggctaact attttactga 120  
 agagactaat ggtcttccct ctgttgtagt gctatgtttc ttgatctgtt tttccccaat 180  
 gtaacagtct acattgaagt ccttttagctc tctccatata ctaattgaca tttgttaagg 240  
 attcaatatt ttgtgaatto tttttaccct taaaatgcat atctttcaga gagataagaa 300  
 tgaattttgc aataatttat atgcagagtg tgcttatggg tttctgggag ttcaagttag 360  
 taccacagag tgcttaaaag tacgatgcta aatttctaagg ctaatgtaat gactgtagat 420  
 tatctatgtc cacattgttc aacagaaata taatgtgaac cacaacataa tttttaattt 480  
 tctagtagcc atattaaaaa agaaacaagc aaaattaatt ttaataacag tttatgtaac 540  
 ccagtatat tttttcttcc atgctaagtc tttagattga gtgtattttg cactcacagc 600  
 ccttatcctc tttttcttcc atgctaagtc tttagattga gtgtattttg cactcacagc 660  
 acatctcaat tctgactgga cctgcccggg cgccgctcga aaagggcgaa ttccagcaca 720  
 ctgggcgggc gttactagt gatccgagct ccggtaccaa gcttggcgta atcatgggtc 780  
 tagctgttt 789

<210> 1660  
 <211> 559

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 3, 53, 313, 323, 330, 368, 411, 452, 457, 460, 463, 470,  
487, 499, 516, 518, 545

<223> n = A,T,C or G

<400> 1660

```
ccnccgccc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcngaattcg 60
ccctttccag cggccgccc ggccaggtcca tcagacttct tgggtgacct gctatattca 120
atgtgaagta aaaaatatcc caagctttac accaaaatag aggcctctgac ttagaagtat 180
gcttttagct ttctttttta ataagacatt ctggaagaaa aaaaagaaa aaggaaagaa 240
aatcaagttt gaaacacagt taacacttat tttggcaaga aagcaacca aatctaaaaa 300
gcataaacta tgngtccaaa tgnaaaaggn attacagaac aaactgcaag aggggaaaaat 360
taaagccnca ctgaacgaaa aaatacagta tgtctaacat tttggaattg naattttaa 420
cctaagggca aaagctgaaa aatcatgctt anacctnggn cngnacacn ctaagggcga 480
attccancac actggcggn cgttactagt gatccnact cggtagcaag cttggcgtaa 540
tctnngcat agctgtttc 559
```

<210> 1661

<211> 453

<212> DNA

<213> Homo sapiens

<400> 1661

```
ttgggcccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
ccctttccag cggccgccc ggccaggtctg cagtgtccct ttttatatca tgctagtgtt 120
gagacatact tgactaactt gggaacagtt cgatatattg acaaccgtca acttaagaaa 180
atcaacagct tttggcccca gcgtccaagt gaacttttca tggagtgcag aatctcaaat 240
ggacaaaaata ctttgtcttt ttaaatactg aaaatttaat tattagtact atgactgaaa 300
gattcttcat ggctaaaaag ctctgcatca aactcaattc aggaggacct cggccgcgac 360
cacgctaagg gcgaattcca gcacactggc ggccgttact agtggatccg agctcggtac 420
caagcttggc gtaatcatgg tcatagctgt ttc 453
```

<210> 1662

<211> 809

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 16, 25, 47, 98, 301, 437, 446, 461, 464, 491, 500, 524, 526,  
530, 564, 589, 599, 603, 617, 633, 657, 658, 676, 682, 689,  
696, 709, 726, 738, 742, 751, 753, 755, 762, 773, 776, 779,  
784, 789, 792, 802, 805

<223> n = A,T,C or G

<400> 1662

```
ctcgagcggc cgccantgtg atggntatct gcagaattcg cccttanccg cggcccgggc 60
aggctccttag ccaaagaatg cagtggagcc ttccccngg ggctgcattg tgaatgaata 120
ccaattgaca gcataaaaaa taatagtccc atatcagatc tggaaggggt ttctggggct 180
gtctgatgtc cctatcctgt tgtagtgaac acaatagcag aaaattcttt ctgggtccat 240
```



```

ctgctataaa gtcttggtaa aacagcatta ctatgaagag gatgaactca cctaccttca 300
natggaggaa aagtgaagaa gacttaggct ttagtcctcc atgacttttc ttaagcacta 360
cctacctgta ataagctgag tgcaaaagga tgccgaagaa aatctgcacc cagaagctgt 420
tagaaagcac tgcagangaa cagggnatga ataaaataaa nagntcttaa taaaccctta 480
agattctttg ntcaaggggn actttgccaa aaggggcaga atangnggggn aaagagttgc 540
ttttaatcta gctctacact ggcntttgaa aataaaattt gccatttng aaatataatng 600
ggntataatt aaaatgnggc tttttacact ggnggggcta tataaaaact gggtaginnaa 660
atttccaccg agcatntatg gngatttgnt cacagnaaac ctccggggcng gaaccacgct 720
aagggnggaa ttccagcnac antggggggg ncnngntacct anagtggatc ccnagnctng 780
gggncccca anctttgggg gngtnaatc 809

```

<210> 1663

<211> 585

<212> DNA

<213> Homo sapiens

<400> 1663

```

ttggggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
cccttgccgc ccgggcaggt gatggatgag gagcaaaaac tttatacggg tgatgaagat 120
gatatctaca aggctaataa cattgcctat gaagatgtgg tcggggggaga agactggaac 180
ccagtagagg agaaaataga gagtcaaacc caggaagagg tgagagacag caaagagaat 240
atagaaaaaa atgaacaaat caacgatgag atgaaacgct cagggcagct tggcatccag 300
gaagaagatc ttcggaaaga gagtaaagac caactctcag atgatgtctc caaagtaatt 360
gcctatttga aaagggttagt aaatgctgca ggaagtggga gggtacagaa tgggcaaaat 420
ggggaaaggg ccaccaggct ttttgagaaa cctcttgatt ctgagcttat ttatcagacc 480
tcggccgcga ccacgctaag ggcgaaattc agcacactgg cggccgttac tagtggatcc 540
gagctcggtg ccaagcttgg cgtaatcatg gtcatactgt tttcc 585

```

<210> 1664

<211> 999

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 2, 5, 10, 22, 83, 150, 176, 189, 264, 275, 283, 286, 302, 311, 318, 338, 374, 524, 528, 531, 536, 541, 606, 611, 614, 616, 621, 634, 635, 636, 644, 659, 682, 688, 702, 715, 723, 726, 768, 777, 779, 789, 796, 802, 810, 819, 831, 836

<223> n = A,T,C or G

<221> misc\_feature

<222> 853, 854, 869, 874, 893, 900, 903, 911, 989, 999

<223> n = A,T,C or G

<400> 1664

```

anccngctcn agcgccgcgc antgtgatgg atatctgcag aattcgccct ttcgagcggg 60
ccgcccgggc aggtctgaca atngattaaa caggcgacat gcaaccccca ctaagggttaa 120
aagtccaaaa ctactcacac gcatctcttn attggggaaa agctgagact attatncatt 180
cttggtagnc ttgcaacctt gcatgaagag caccattgc atttctttca tctttcagaa 240
agcaccggta totgttccaa gggncataca gtacnaaaat acnttntggg attacacctt 300
tnaaacccaa naactgttntc attaaaaata attttggnnt gtaacaaaat tatgaaatac 360
aatgcaagca cctnggtata gcattattac tgaaaccact taattcccag ctttttgagt 420
tttttaaaaa aaccactgac actaagattc acaattcatt gctacatata aattaaagct 480

```

```

agtaagaaca cactaacgtc acaagtttct cattctaaag tgcnaaancc ntaatngtct 540
ngaaagtgga acaggggtaa agggcaaaaa ttaaccccc ccacccaat taaagtttcc 600
tggaangtca ntantntttt naatccccc aaaggnncatt tctnttttaa aaaattggnt 660
acctttggaa ctggggtaaa gnaaaatnag gaacccttg gnggtttttt ttatnttttc 720
ttnaanccaa ccccccaatt ccaccttaa aacccccacc cgggggangg ccaaaangnc 780
cacccttgng gaaacncttt tngtgggggn cccggtcgna aaaccaacc nccctntaaa 840
aagggggggg cgnaaaaaaa tttctcccna aganaaaacc acctttgggg cgnggggacn 900
cgntttaccc nttaaaatgg ggggaattcc ccgaaagcgt ttgggggtaa ccccaaaaga 960
cctttggggg gggaaaaatg aatgggggnc cattaaccn 999

```

<210> 1665

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1665

gctaaagggtg accccaagaa accaaag

27

<210> 1666

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1666

ctattaactc gagggagaca gataaacagt ttcttta

37

<210> 1667

<211> 207

<212> PRT

<213> Homo sapiens

<400> 1667

```

Met Gln His His His His His His Ala Lys Gly Asp Pro Lys Lys Pro
 1             5             10             15
Lys Gly Lys Met Ser Ala Tyr Ala Phe Phe Val Gln Thr Cys Arg Glu
      20             25             30
Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala Glu Phe
      35             40             45
Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser Gly Lys Glu Lys
      50             55             60
Ser Lys Phe Asp Glu Met Ala Lys Ala Asp Lys Val Arg Tyr Asp Arg
      65             70             75             80
Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys Asp
      85             90             95
Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser
      100            105            110
Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly
      115            120            125

```

Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Leu Asn Asp Ser  
 130 135 140  
 Glu Lys Gln Pro Tyr Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys Tyr  
 145 150 155 160  
 Glu Lys Asp Val Ala Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly Ala  
 165 170 175  
 Lys Gly Pro Ala Lys Val Ala Arg Lys Lys Val Glu Glu Glu Asp Glu  
 180 185 190  
 Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu  
 195 200 205

<210> 1668

<211> 636

<212> DNA

<213> Homo sapiens

<400> 1668

catatgcagc atcaccacca tcaccacgct aaaggtgacc ccaagaaacc aaagggcaag 60  
 atgtccgctt atgccttctt tgtgcagaca tgcagagaag aacataagaa gaaaaaccca 120  
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<210> 1669

<211> 2821

<212> DNA

<213> Homo sapiens

<400> 1669

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 ccagacagcg tgcccccat cgatgtcttc tggatcaaag gggcccaggg aggtgactac 540  
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```

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a 2821

```

```

<210> 1670
<211> 137
<212> PRT
<213> Homo sapiens

```

```

<400> 1670
Met Gly Leu Arg Ala Gly Gly Thr Leu Gly Arg Ala Gly Ala Gly Arg
 1          5          10          15
Gly Ala Pro Glu Gly Pro Gly Pro Ser Gly Gly Ala Gln Gly Gly Ser
 20          25          30
Ile His Ser Gly Arg Ile Ala Ala Val His Asn Val Pro Leu Ser Val
 35          40          45
Leu Ile Arg Pro Leu Pro Ser Val Leu Asp Pro Ala Lys Val Gln Ser
 50          55          60
Leu Val Asp Thr Ile Arg Glu Asp Pro Asp Ser Val Pro Pro Ile Asp
 65          70          75          80
Val Leu Trp Ile Lys Gly Ala Gln Gly Gly Asp Tyr Phe Tyr Ser Phe
 85          90          95
Gly Gly Cys His Arg Tyr Ala Ala Tyr Gln Gln Leu Gln Arg Glu Thr
100          105          110
Ile Pro Ala Lys Leu Val Gln Ser Thr Leu Ser Asp Leu Arg Val Tyr
115          120          125
Leu Gly Ala Ser Thr Pro Asp Leu Gln

```

130

135

<210> 1671  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 1671  
 Met Ala Arg Pro Glu Leu Arg Pro Gly Gly Gly Gly Glu Ser Arg Gly  
 1 5 10 15  
 Gly Gly Asp Asp Gly Ala Ala Cys Arg Arg Asn Ala Gly Gln Gly Arg  
 20 25 30  
 Arg Gly Ser Gly Gly Ala Arg Gly Ala Arg Ala Glu Arg Arg Ala  
 35 40 45  
 Gly Arg Gln His Pro Leu Gly Pro His Arg Arg Gly Ala Gln Arg Ala  
 50 55 60  
 Ala Glu Arg Ala His Pro Ala Ala Ala Val Arg Val Gly Pro Arg Gln  
 65 70 75 80  
 Gly Ala Glu Pro Arg Gly His Asp Pro Gly Gly Pro Arg Gln Arg Ala  
 85 90 95  
 Pro His Arg Cys Pro Leu Asp Gln Arg Gly Pro Gly Arg  
 100 105

<210> 1672  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 1672  
 Met Gly Leu Lys Ser His Val Leu Pro Ala Pro Asn Ser Gln Gly Gln  
 1 5 10 15  
 Gly Ser Leu Cys Ile Phe Val Tyr Val Thr Ser Tyr Met Asp Tyr Ile  
 20 25 30  
 Gln Leu Gln Gly Lys Glu Asn Leu Asp Cys Ser Gly Leu Asn Lys Gln  
 35 40 45  
 Lys Ile Val Phe Pro His Ser Met Asp Ser Gly Asp Gly Trp Leu Met  
 50 55 60  
 Val Leu Val Gln Gln Leu His Glu Gly Arg Gly His Val Leu Asp Pro  
 65 70 75 80  
 Phe Ala Leu Ile Ser Val Leu Val Thr Ser Trp Ser Gln Asp Gly Cys  
 85 90 95  
 Cys Ile Pro Lys Asn His Val Cys Val Gln Gly Arg Arg Gly Gly Gly  
 100 105 110  
 Arg Gly Arg Ala Lys Leu Ala Gly Pro Val Thr Phe Tyr Gln Lys Val  
 115 120 125  
 Lys Pro Arg Gln Lys Ser Val Ser Cys Ser Leu Pro Leu His Ile Phe  
 130 135 140  
 Thr  
 145

<210> 1673

<211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 1673

```

Met Asp Tyr Ile Gln Leu Gln Gly Lys Glu Asn Leu Asp Cys Ser Gly
 1           5           10           15
Leu Asn Lys Gln Lys Ile Val Phe Pro His Ser Met Asp Ser Gly Asp
          20           25           30
Gly Trp Leu Met Val Leu Val Gln Gln Leu His Glu Gly Arg Gly His
          35           40           45
Val Leu Asp Pro Phe Ala Leu Ile Ser Val Leu Val Thr Ser Trp Ser
          50           55           60
Gln Asp Gly Cys Cys Ile Pro Lys Asn His Val Cys Val Gln Gly Arg
65           70           75           80
Arg Gly Gly Gly Arg Gly Arg Ala Lys Leu Ala Gly Pro Val Thr Phe
          85           90           95
Tyr Gln Lys Val Lys Pro Arg Gln Lys Ser Val Ser Cys Ser Leu Pro
          100          105          110
Leu His Ile Phe Thr
          115

```

<210> 1674  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 1674

```

Met Asp Ser Gly Asp Gly Trp Leu Met Val Leu Val Gln Gln Leu His
 1           5           10           15
Glu Gly Arg Gly His Val Leu Asp Pro Phe Ala Leu Ile Ser Val Leu
          20           25           30
Val Thr Ser Trp Ser Gln Asp Gly Cys Cys Ile Pro Lys Asn His Val
          35           40           45
Cys Val Gln Gly Arg Arg Gly Gly Gly Arg Gly Arg Ala Lys Leu Ala
          50           55           60
Gly Pro Val Thr Phe Tyr Gln Lys Val Lys Pro Arg Gln Lys Ser Val
65           70           75           80
Ser Cys Ser Leu Pro Leu His Ile Phe Thr
          85           90

```

<210> 1675  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 1675

```

Met Gln Asn Cys Val Pro Val Ser Phe Cys Cys Val Thr Asn His Pro
 1           5           10           15
Gln Thr Trp Gln Leu Glu Thr Asn Pro Val Phe Ser His Asn Pro Met
          20           25           30
Gly Trp Gln Phe Gly Leu Gly Ser Thr Gly Gln Phe Cys Cys Ser His

```

```

      35              40              45
Leu Gly Ser Leu Met Glu Leu Arg Ser Ala Val Thr Ser Ala Gly Pro
      50              55              60
Gly Trp Ser Arg Ile Ala Leu Leu Thr Cys Leu Ala Gly Asp Arg Leu
65              70              75              80
Leu Ala Gly Ile Ala Trp Phe Ser Ser Met Trp Pro Leu Gln Gln Ala
      85              90              95
Ser Ser Gly Leu Phe Thr
      100

```

<210> 1676  
 <211> 1336  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1676
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cagcaaagaa aaggaatagg atcaagagat acgtggctgc tggcagagca agcatgaatt 180
cgatgacttc agcagttccg gtggccaatt ctgtgttggt ggtggcacc cacaatgggt 240
atcctgtgac cccaggaatt atgtctcacg tgccctgta tccaaacagc cagccgcaag 300
tccacctagt tcttggaac ccacctagtt tgggtgcgaa tgtgaatggg cagcctgtgc 360
agaaagctct gaaagaaggc aaaaccttgg gggccatcca gatcatcatt ggcctggctc 420
acatcggcct cggctccatc atggcgacgg ttctcgtagg ggaataacctg tctatttcat 480
tctacggagg ctttcccttc tggggaggct tgtggtttat catttcagga tctctctccg 540
tggcagcaga aaatcagcca tattcttatt gcctgctgtc tggcagtttg ggcttgaaca 600
tcgtcagtg c aatctgctct gcagttggag tcatactctt catcacagat ctaagtattc 660
cccacccata tgcctacccc gactattatc cttacgcctg ggggtgtgaac cctggaatgg 720
cgattttctg cgtgctgctg gtcttctgcc tcttgagatt tggcatcgca tgcgcatctt 780
cccactttgg ctgccagttg gtctgctgtc aatcaagcaa tgtgagtgtc atctatccaa 840
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ccagtgagat ccaagcaaat aagtaaggct acagattctg gaagcatctt tcaactgggac 960
caaaagaagt cctcctccct ttctgggctt ccataacc a ggtcgttctt gttctgacag 1020
ctgaggaaac gtctctccca ctggttgtag tctcaccttc attcttcaat tcagtctagg 1080
aaaccatgct gtttctctat caagaagaag acagagattt taaacagatg ttaaccaaga 1140
gggactccct agggcacatg catcagcaca tatgtgggca tccagcctct ggggccttgg 1200
cacacacaca ttctgtgtgt ctgctgcatg tgagcttgtg ggtagagga acaaatatct 1260
agacattcaa tcttcaactt ttcaattgtg cattcattta ataaatagat actgagcatt 1320
caatgtgaaa aaaaaa
1336

```

<210> 1677  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1677
Met Asn Ser Met Thr Ser Ala Val Pro Val Ala Asn Ser Val Leu Val
  1              5              10              15
Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly Ile Met Ser His
      20              25              30
Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His Leu Val Pro Gly
      35              40              45
Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln Pro Val Gln Lys

```

50		55		60											
Ala	Leu	Lys	Glu	Gly	Lys	Thr	Leu	Gly	Ala	Ile	Gln	Ile	Ile	Ile	Gly
65					70					75					80
Leu	Ala	His	Ile	Gly	Leu	Gly	Ser	Ile	Met	Ala	Thr	Val	Leu	Val	Gly
				85					90						95
Glu	Tyr	Leu	Ser	Ile	Ser	Phe	Tyr	Gly	Gly	Phe	Pro	Phe	Trp	Gly	Gly
			100					105						110	
Leu	Trp	Phe	Ile	Ile	Ser	Gly	Ser	Leu	Ser	Val	Ala	Ala	Glu	Asn	Gln
		115					120					125			
Pro	Tyr	Ser	Tyr	Cys	Leu	Leu	Ser	Gly	Ser	Leu	Gly	Leu	Asn	Ile	Val
		130				135						140			
Ser	Ala	Ile	Cys	Ser	Ala	Val	Gly	Val	Ile	Leu	Phe	Ile	Thr	Asp	Leu
145					150					155					160
Ser	Ile	Pro	His	Pro	Tyr	Ala	Tyr	Pro	Asp	Tyr	Tyr	Pro	Tyr	Ala	Trp
			165						170					175	
Gly	Val	Asn	Pro	Gly	Met	Ala	Ile	Ser	Gly	Val	Leu	Leu	Val	Phe	Cys
		180						185						190	
Leu	Leu	Glu	Phe	Gly	Ile	Ala	Cys	Ala	Ser	Ser	His	Phe	Gly	Cys	Gln
		195					200					205			
Leu	Val	Cys	Cys	Gln	Ser	Ser	Asn	Val	Ser	Val	Ile	Tyr	Pro	Asn	Ile
		210				215					220				
Tyr	Ala	Ala	Asn	Pro	Val	Ile	Thr	Pro	Glu	Pro	Val	Thr	Ser	Pro	Pro
225				230					235						240
Ser	Tyr	Ser	Ser	Glu	Ile	Gln	Ala	Asn	Lys						
			245					250							

<210> 1678  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<400> 1678  
 Thr Arg Pro Arg Arg Ala Ala Gln Gly Arg Arg Glu Ala Pro Pro Gly  
 1 5 10 15  
 Gly Glu Pro Glu Pro Arg Ala Ser Leu Ala Ala Pro Gly Glu Arg Ser  
 20 25 30  
 Arg Ser Arg Ala Gly Asp Arg Gly Val Glu Ala Gly Pro Arg Arg Gly  
 35 40 45  
 Arg Gly Arg Asn Ala Arg Cys Pro Gly Thr Gly Pro Asn Pro Pro Ala  
 50 55 60  
 Ala Arg Asn Gly Met Ala Arg Pro Glu Leu Arg Pro Gly Gly Gly Gly  
 65 70 75 80  
 Glu Ser Arg Gly Gly Asp Asp Gly Ala Ala Cys Arg Arg Asn Ala  
 85 90 95  
 Gly Gln Gly Arg Arg Gly Ser Gly Gly Ala Arg Gly Ala Arg Ala Glu  
 100 105 110  
 Arg Arg Arg Ala Gly Arg Gln His Pro Leu Gly Pro His Arg Arg Gly  
 115 120 125  
 Ala Gln Arg Ala Ala Glu Arg Ala His Pro Ala Ala Val Arg Val  
 130 135 140  
 Gly Pro Arg Gln Gly Ala Glu Pro Arg Gly His Asp Pro Gly Gly Pro  
 145 150 155 160  
 Arg Gln Arg Ala Pro His Arg Cys Pro Leu Asp Gln Arg Gly Pro Gly



Arg 165 170 175

<210> 1679  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1679  
 Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile Tyr Pro Asn Ile  
 1 5 10 15  
 Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val Thr Ser Pro Pro  
 20 25 30  
 Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys  
 35 40

<210> 1680  
 <211> 717  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 22, 586, 687, 714  
 <223> n = A,T,C or G

<400> 1680  
 aaaagaattt ttgcttttctt tntctctaaa ttttccttcc gtgctttgat gcgggctcgt 60  
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 ttgtatcttt tatcttaggtg ccaaggtata acccactgct tgaacttggtg ccagatgatt 180  
 cttccaaaga tgtctcttctt ccaagcacca ggtctagctc tttcttgacc agtctgaaga 240  
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 aggggttagaa gcatgtttctt ttctttcagt aagacatacc aaagtttggtg taaatcttca 420  
 ttacttttgt tccttagttg ctgacaggtc catgctgctc cagattttac tttttcttgc 480  
 ccccagtttt ttgggtcatc aaaaaattct tctagtcctt tccttgacaa tgtggtatga 540  
 agtaatctat attggtgaaa ggatgtcaca tttggtgtac tcttangcaa caaactaaga 600  
 aaaaaccctg tcaggcaggg acctgaggag ttattaacga accgggaaga attcagggcg 660  
 gatgaaactc tcctaccaag aaagggncaa accgggccgc agccatgttt tcncat 717

<210> 1681  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<400> 1681  
 ctgtacattt aacaaaatat gtgcaagact gtcatggtga aaactacaaa acaatgataa 60  
 aagaaattca agaaaacaaa taaatacagg ggtatactat attcatgaat tgggagaatc 120  
 aatatcatta ttaagtctcc tcagattgat ctatagattc acagaaatcc caattcaaac 180  
 cctatcagga ctattttagt aaatagacac actgatgata aaattttacat agaaacacaa 240  
 aggaagcaga atagccaaaa attattgggg aaaaaatgta gttgaaggat tcccattact 300

ccttt

305

&lt;210&gt; 1682

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1682

```

aaattacact ccataaattt agacatatgt ctctccaagt aagtacgagc tgattgggaa 60
cgggctccaa tggacatggc tctgcagtca aaatagttag cagatggaca ggtttggaaa 120
atgtgagggc ccataatcatc ataaccagca ataaggagac caacaccata tggctctccg 180
ccataatcgtt gtgttggtat ctgggtctct tagactggtt aacgagcttg ttttaacaag 240
gaatgaagta ctgtctttat tttcaaatta tacattatta acaaaggctc ctggcttatt 300
ctttaattgt tgcataatcc accagagaaa taatgcaata ggacactatt tctttggcct 360
aatataaaaat gtttgacttt ctaccgaacc taagaaaagag tgccagcaaa ataatttctt 420
cccattctaaa acctgatttg ttttggtatc aagggggtct aggatttctt gggacatcta 480
gaaccattaa gaaacttt

```

&lt;210&gt; 1683

&lt;211&gt; 322

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1683

```

aaaaattaaa aatagcacia ttctacaatt ctgattttac caagaaaata aacctttttt 60
ggcacatatt atcctatgaa aatggaaagc tgagtcaggc tgctctgctt ttcacagcac 120
aaataagcat tcatgctatc agacttgga aattaactcg gtgacaaaaa ttcactggaa 180
aatagaatcc ttggaaaaat ggggtcaggt gccatccact gagaggcaat gataatgtgt 240
gtccttcgtt attagcacia agttaggcag cacactataa ttttagctac atgcaactct 300
ataggaacac atgtgggtaa gg

```

&lt;210&gt; 1684

&lt;211&gt; 293

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 51, 182, 188, 195, 203, 220, 246

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 1684

```

aaaagatgct gcttccctgt tttcttccag gaacacagag accaacacgg nttcaaacac 60
agggcgagct tctcactatt tcttggaat gttacttctc agcccaacac ttctcttccc 120
aagaagttca agttttgaga ctgtttttct ccccggaaca gtacttaaaa aaaaaaaaaat 180
cmttgatntt caaanatggg tntttttcgt gtcttggaan agcatcagta actaaatatt 240
aagttntcca caatgctgcc cccctggggg ggctaaccgg atgccaaggg aga 293

```

&lt;210&gt; 1685

&lt;211&gt; 390

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1685

```
<210> 1686
<211> 549
<212> DNA
<213> Homo sapiens
```

```
<210> 1687
<211> 442
<212> DNA
<213> Homo sapiens
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<400>	1687						
caactgcaaa	tgaagatcct	ttttggatac	ttgntgagaa	agacacattn	gggggggggt	60	
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aataatcagg	gcattgcaca	agaggaggcg	cttcattctaa	ttgatgaaat	ggatttgaat	180	
ggtgacaaaa	agctctctga	agaagagatt	ctggaaaacc	cggacttggt	tctcaccagt	240	
gaagccacag	attatggcag	acaggctcca	tgatgactat	ttctatcatg	atgagcttta	300	
atctccgagc	ctgtctcagt	agagtactgg	ctccttttat	aatttgttac	cagctttact	360	
tttgtgataa	aatattgatg	tngnntttta	cactcttaag	tcttaaccac	agtcacaatt	420	
atcttaattgt	agatnataat	tg				442	

```
<210> 1688
<211> 340
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 23, 52, 56, 58, 60, 62  
<223> n = A,T,C or G
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```
<210> 1689
<211> 140
<212> DNA
<213> Homo sapiens
```

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<400> 1689
ccagaggggcc tgcacatgca atttccagtc cctgccttca gagagctgaa aaggggggcct 60
nggtctttta ttccagggtt ttgcatgcgc tctattcccc ctctgcctct cccaccttc 120
tttgagcaaa ggaatgcag
```

```
<210> 1690
<211> 485
<212> DNA
<213> Homo sapiens
```

<400> 1690						
gagattatta	cccagaattc	acatgtaggg	atggggaagg	acaatttttt	tttaactaaa	60
aaagtggcg	gcagggtgg	ggggtggcaa	tcatttttct	tcctatacat	acaaaggata	120
ttgtcaaaaa	tggcgttctt	ctcttgtagc	ctgttattct	gattgctgct	gtatacagtt	180
ttgtcactct	ttagttttta	gttaagcata	ctgatagact	ttcctctaaa	agccattcac	240
tccagatttt	acctggggaa	tattctacat	actgcttact	ttctctataa	aactcatcaa	300
taaatcatga	aaggcactga	gttttgtaaa	tcaggacctt	aaatgtttta	ttgtaataaa	360
gtttcagata	attattatag	ctttgcggtg	aagtttggtg	ttttttttct	caactagtta	420
agtcaactgc	ttctgaaata	actctgtatt	gtagattatg	cagatcttta	caggcataaa	480
tatttt						485

```
<210> 1691
<211> 342
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 11, 24, 26, 49, 50, 51, 53, 61, 62, 142, 173, 190, 193, 242,
250, 291, 303, 304, 315, 329
<223> n = A,T,C or G
```

```
<400> 1691
gaagaaacaa ngatgacttt tttnanaaca aagcataatg ctggcaatnn ngnggggggt 60
nnagttttcc aaacatgtta tcttaaatac cccittatcc ttacaggttg acataacttt 120
```

```
<210> 1692
<211> 450
<212> DNA
<213> Homo sapiens
```

<400> 1692					
aaaaatgggg	ccccaagac	tgntaagagc	tcatccccgt	ggtctcctat	cacccggggnn 60
ggggttcatg	tctgatgaga	agcttgagc	gtactgaaac	tcatacatgt	aggtgggtgc 120
tccagcatct	ctgtggttc	gggcacaat	cacagatggg	acaccaaaaca	tcacatctgc 180
tatcaagtcc	aggaacagg	ctttctttt	gacagtgtcg	tctgttcctc	ctaagtattt 240
ctcagtggct	tctggaatca	gttccttagc	aatgcaaaca	aggggatagg	acttccacag 300
gagtgcacatg	gctgtcttct	ggtccagttg	cccttcggag	agtggatagc	tcatcaactg 360
cattggaatc	aaccagccaa	actcctgctt	gttaattccg	accatgtang	ggacagngtg 420
gaaattcctt	tcagcttgaa	agctcttcag			450

<400> 1693						
ctatttttatt	aacatcatgn	tttaataaat	aactggctac	ttctaataaa	nnggggggnc	60
cngttttacaa	cagcccccaa	tattccattt	tgaccactct	gcagaatttg	gtgtaaaaaag	120
ttgaatgaaa	tgtagacct	gagctatcaa	gtaattatgt	ttcaatataa	aaatagagaa	180
ttactcttac	aactgaagat	tgaacaataa	cacaaacaac	ctctttgtgg	gttttagggt	240
cggtaaaaatt	agttgggac	ttaatggctg	tctaaagcag	gaaganacag	aattttaatc	300
tttctgaaga	cttctgggaa	ctnctttgaa	agngatttgt	taccttatca	gagtttatga	360
gctattattt	tggtnaaggc	acaangaaag	gattcccang	nngttgntan	tcttttgccc	420
tggacnacaa	anattg					436

```
<220>  
<221> misc_feature  
<222> 29, 32, 34
```

<223> n = A,T,C or G

<400> 1694

```
attatctgca aggttttttt gtgtgtgtnt tngnttttat tttcaatatg caagtttaggc 60
ttaatttttt tatctaataga tcatcatgaa atgaataaga gggcttaaga atttgtccat 120
ttgcattcgg aaaagaatga ccagcaaaag gtttactaat acctctccct ttgggggattt 180
aatgtctggt gctgccgcct gagtttcaag aattaaagct gcaagaggac tccaggagca 240
aaagaaacac aatatagagg gttggagttg ttagcaattt cattcaaaat gccaaactgga 300
gaagtctgtt ttt                                     313
```

<210> 1695

<211> 522

<212> DNA

<213> Homo sapiens

<400> 1695

```
ccattttcag gggaagcttg ggagagcaat agtatggtga gccccttaga gatgagcgcc 60
tactccttct tggcgaatgc tgccttcaga tgcttaccaa gtggtcactg catctagtaa 120
gattatattt ccagtacact tccttagggc agaaacacca tcctatcagg ttggtcagt 180
cccttcttca tgaagggagt catggggaat tctgaaaat tttcttcctt ctgcagacag 240
ttggatgagt cccttagaga aggcattcag agacataact aaactgaata tcatcccata 300
ttgatttttag gaattgactc taaaactctg tgcagaatct tgtgttgga ttgtatcttg 360
acattcctgt tgtgttattt ttcttaactg gagtgtgtgc tgcctttcag gtacaatttt 420
tgtgtaataa aagccagtgc attaagttta tatagactac tttctatgca agactgagat 480
atggaataga taggaagaga tatgtactgc tgggtacatg ga                                     522
```

<210> 1696

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 52, 55

<223> n = A,T,C or G

<400> 1696

```
ccagccattg cctggcattt ggtagtatag tatgattctc accattattt gncanggagg 60
cagacatata ccagaaatgg gggagaaaac gtacatatct ttctgtcttt agttttattgt 120
gtgctggtct aagcaagctg agatcatttg caatggaaaa cacgtaactt gttt          174
```

<210> 1697

<211> 561

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 22, 55, 56, 198, 265, 374, 378, 399, 410, 465, 543, 549

<223> n = A,T,C or G

<400> 1697

```
ctgtaatgtt attgcagatc cncatctctc gctcaactgt taatgtctca acctnnagag 60
gcacccacc cagcacactg tcagtaaagg ggcagattga aacagtgaga gtaagggta 120
```

```
<210> 1698
<211> 267
<212> DNA
<213> Homo sapiens
```

```
<400> 1698
cgaggctctgc cctcgattgt gtatttctgt tggatcaaac actcccatgt taccactngg 60
cnncataatg tatcgatata tattccaagt ggcaacaggt aagttgagaa ggaagatgaa 120
ccagtgc aat gacatgagca gtaatacagt gacaatggta tggccactta aattaaaaaat 180
ataacaaaat tgaaaaaatag acatataaacc aaaaagattc taaatcttgc aaggaaaaaaa 240
agaataaaagc tccaataaag ttattttt
267
```

```
<210> 1699
<211> 449
<212> DNA
<213> Homo sapiens
```

<400> 1699						
tgттааgatt	ttttttgcta	caaagaggag	gtggcaatgg	tagatccacc	cttatgcttc	60
tcagtttagc	ataacctctt	atggattttc	atcaaattca	gcgtgttggt	cactggaaag	120
agccttttcc	ttctcctttt	cttactctcc	cctcatgggt	ttccctctt	aaaggagagg	180
agctttttaat	ttacaccttac	caoctcattt	gcttttctgg	aggccatgca	atataggcgg	240
gactacagag	ttaatctcct	ttttacaaat	gaggccaaga	gaagcctcat	tggttcacag	300
tcatgcagct	catactgtcc	acccttgtat	tctcagatgc	aggacaattg	cattttagtt	360
ttatttttgtg	gagggtgcaga	atattttactc	tttctgtcca	acccttgatt	ctgccgagga	420
agacactgat	ggtttgatga	gtgattcag				449

```
<210> 1700
<211> 398
<212> DNA
<213> Homo sapiens
```

```

<400> 1700
acatttcaca aataagatgt agcttttccaa acaaattccat tcgatgacca ttatcacaaac 60
tatattttat tctaatttat aaaacaaaaa atgggttagac aagcacatga tatcaagagt 120
cttcaacaca gtggattcca ttttattaag aaaaaaaaata gaaaacaagt agtccttaaa 180
ttgtcttagc tctccatagc atacgttata taaaattaaa gttttgcttc caaaaatatg 240
tttccatgtg gtcgtggtgt tgtccagtgc tattagggcc aaagcaccaa agacatgaga 300
agtttaacca tcgacttgtc atttttcata aaagctaaac atttccttat aggtctggag 360
taaaatcttc taggcatttt agtgctaaaa gtcacttt
398

```

<210> 1701  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4, 12, 13, 27, 47, 53, 61, 63, 76, 77, 78, 79, 86, 87, 88,  
 89, 92, 93, 97, 100, 101, 103, 127, 129, 130, 133, 134,  
 141, 142, 143, 147, 149, 152, 155, 164, 166, 174, 185, 188,  
 194, 203, 205, 220, 228, 237, 238, 240, 241, 246, 251  
 <223> n = A,T,C or G

<400> 1701  
 aaanaacact annggacctt agagatnata actgtttgat aatttgnctc agnccgtattg 60  
 ncntaaaaga tatatnnnng gggggnnnnt cnntgtnaan ngntgttttg attgcctgat 120  
 attatancnn ggnngttggg nnntatntna cncantatac ctcnngncgca accnccgctaa 180  
 tggcnagnat catnacactg gcngncgtta ctactggatn cgagctcngt gccaatnncn 240  
 nccgtctcat ngcccta 257

<210> 1702  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 476  
 <223> n = A,T,C or G

<400> 1702  
 acctaattna ttgaagtaat aaccaaataa ttttcaatct tgattcaact gtgattcaaa 60  
 tcttacacca tttgccact tctatgaatt ttatgtataa aatttttttaa gagtcagagt 120  
 tttttttctt gattaattgg atgtatttca cagaatttcc aactgctcac gttagttttc 180  
 ttcttttttag agttgatctc tctaattgat tagatcttca tgcctttgat agtctctctg 240  
 gaataagttt gcagaaaaaa cttcagcatg tgccaggaac acaacctcac cttgatcaga 300  
 gtattgttac aatcacattt gacgtaccag gaaatgcaaa ggaagaacat cttaatatgg 360  
 ttattcagaa tcttctgtgg gaaaagaatg tgagaaacaa ggacaatcac tgcattggagg 420  
 tcataaggct gaagggtattg gtgtcaatca acgacaaatc acaacgagtg attgtncagg 480  
 ggggtccatg agctctggtg atccgggagg agactccaat gagctg 526

<210> 1703  
 <211> 116  
 <212> DNA  
 <213> Homo sapiens

<400> 1703  
 gacctccgaa ctgagctcta atttagctga tcagattttg cttgggtaaa gttccttttt 60  
 aatgttctaa agtggtttacg gttctcaa atcagttaaa aactaatttt aggtgg 116

<210> 1704  
 <211> 241  
 <212> DNA



<213> Homo sapiens

<220>

<221> misc\_feature

<222> 209, 230, 235

<223> n = A,T,C or G

<400> 1704

```

aaaaattgtg taattgttaa atgtccagtt ttgctctgtt ttgcctgaag ttttagtatt 60
tgttttctag gtggacctct gaaaaccaa ccagtaacctg gggaggttag atgtgtgttt 120
caggcttgga gtgtatgagt ggttttgctt gtattttcct ccagagattt tgaactttaa 180
taattgcgtg tgtgtttttt ttttttttna aggggctttg tttttttttn tcaanaaaaa 240
t                                                    241

```

<210> 1705

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 9, 12

<223> n = A,T,C or G

<400> 1705

```

ggtcctgtnt anacacacat caatatgaaa caaaaaaat ttatataaat aagtcaatta 60
aacttcacaa aaactaaaga aacacaagac aaaaatccaa caagcaataa aaactgtaca 120
atattggtca gtcttttata tctgaaaaat gtgtaactta aaaaaaagt atttatcgta 180
taaaaaaagt cttttacatc tgtgttagct ggagtgaata cttgaagact cagactcagt 240
ggaaacagat gaatgtccac ctgcgtttcc tttggagagg atcttgaggc tggaccctct 300
gctcacagag gtgagtgcgt gctgggcaga gggtttt                    336

```

<210> 1706

<211> 107

<212> DNA

<213> Homo sapiens

<400> 1706

```

aggggtggctc tgggagcagt tgtgctgcgg gcttgctggg ggagaactct aactgttgca 60
gaaacagagc ttcattggctt gcttaaatta cttagctgga atatttt                    107

```

<210> 1707

<211> 512

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 468, 470

<223> n = A,T,C or G

<400> 1707

```

ttttttgtct ggtaattata tttttattat ttagcaaaac tgaagaaaaa aagcacagaa 60
ttgtttcaac agatgtctct catttttcagc tagcatttct ctcccaagtt gagctggttt 120

```

```
<400> 1710
tacaaaatat tttaattgta agtggtcaga ggaattcttc tggttttctcc cttatggnta 60
tttttaattt gtacaataqt tgcttctgtc aactcagcga caatgccatc atagctttca 120
```

aatgagatca ccctgtagat cgatggacta tgccttaaag ttgcagatgc ataaaggaga 180  
ctgaggacaa atggtgaaaa ctgtagttac tgaacccaaa tgttactcag agatatcaa 239

<210> 1711  
<211> 122  
<212> DNA  
<213> Homo sapiens

<400> 1711  
agtgttaagt aacacagaag agtgacatgt ttacaaacct caagccagcc ttgctcctgg 60  
ctggggcctg ttgaagatgc ttgtatttta cttttccatt gtaattgcc tgcctatcac 120  
ag 122

<210> 1712  
<211> 169  
<212> DNA  
<213> Homo sapiens

<400> 1712  
ttcccataaa taaaagtaca gttttcttgg tggcagaatg aaaatcagca actttctagca 60  
tatagactat ataatcagat tgacagtata tagaatatat tatcagacaa gatgaggagg 120  
tataaaagtt actattgctc ataatgactt acaggctaaa attagtttt 169

<210> 1713  
<211> 392  
<212> DNA  
<213> Homo sapiens

<400> 1713  
tgacagagag gatggcgctg tcgaccatag tctcccagag gaagcagata aagcgggaagg 60  
ctccccgtgg ctttctaaag cgagtcttca agcgaaagaa gcctcaactt cgtctggaga 120  
aaagtgggtga cttattgggtc catctgaact gtttactggt tgttcacga ttagcagaag 180  
agtccaggac aaacgcttgt gcgagtaaat gtagagtcac taacaaggag catgtactgg 240  
ccgcagcaaa ggtaattcta aagaagagca gaggttagaa gtcaaagaac atattcttga 300  
aagttatgat gcattctttt ggggtggtaac agatcataaa gacatttttt acacatcagt 360  
taatatggga ttattaaata ttggctataa aa 392

<210> 1714  
<211> 301  
<212> DNA  
<213> Homo sapiens

<400> 1714  
tgggagggat attttccac aggaacaagg gtctccgtga tgacacgggg tctctatagt 60  
catgttgaga gcctaattggc ccttggcata attgctgggt ttggggtaga aggtgtcttg 120  
gagtttgctc aagtgggtga gagggaggga ggtgccatag acttggagga actggcacga 180  
agccaaggat acaaatccag gcagggctgt ggggcaggat agggagcagg gccttctact 240  
gaaggagtga ctcaggaagg aggaggggaa ggtgacaagc ccctgggcag gagccctgtg 300  
g 301

<210> 1715  
<211> 194  
<212> DNA  
<213> Homo sapiens

<400> 1715  
 taaattcagg ctaacttctg aaaatcccgt tttattcacc tcaactgtggt accagtaact 60  
 atactgagtc aggttacttt acagttaact atgtcaccta aaacacaata atccattaac 120  
 actctaataa cagttattgg gtgtgggtcat actggaaatt ctttaaccata tagttgtctt 180  
 gccaatTTTT tttt 194

<210> 1716  
 <211> 185  
 <212> DNA  
 <213> Homo sapiens

<400> 1716  
 gtaggaatgg gttcttggtg cacaagatag tattgttgag ctagtttttcg agctctgtgc 60  
 acaagcactc tttaattccc acggacgggg ctctccagc tacagcagcc aaagcatatt 120  
 caatctggac aagtttacca gacgggctga atgtagtcag cgaaaaactg taccgcgcgt 180  
 ccgcc 185

<210> 1717  
 <211> 296  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 3  
 <223> n = A,T,C or G

<400> 1717  
 aanaggctct tgggtggagag gactgtgaag ccgtcggcag gtgtgccctc gggtgtgccg 60  
 tcggcgctgg ctgccttact gacttcaccc tgcttcttct tggatttccg ggcccttttc 120  
 ttgcctcctg cttttttaga tgcaggcttc ttctgggatg gagacttggc ctttttggct 180  
 gggggtggtg tgatgatggc ttccaacttt cctttggatc cccgcttctt cgctagcaac 240  
 tcggggtgga tgttgggtaa cacaccccca ctggctatgg tgactccttt tagcag 296

<210> 1718  
 <211> 343  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 208, 322, 341  
 <223> n = A,T,C or G

<400> 1718  
 atggcattaa ttgttccttg cttttatagg gtgtattttg tacatttttg atttctttat 60  
 ataaggcat agattcttga gctgttggtg tttttagtgc acttaattatt agcttgctta 120  
 aggcatactt ttaatcaagt agaacaaaaa ctattatcac caggatttat acatacagag 180  
 attgtagtat ttagtatatg aaatatntg aatacacatc tctgtcagtg tgaaaattca 240  
 gcggcagtg gtccatcata ttaaaaatat acaagctaca gttgtccaga tcaactgaatt 300  
 ggaacttttc tcctgcatgt gnatatatgt caaattgtca ngc 343

<210> 1719

```
<400> 1722
ttatgaagtt gacaaataaa taaaaggtag tggntatgtc tgagcttatt gtgtttgagc 60
taacaccagg ttactcagta accatgacct gtcctccat ttccatttat tctcaacatt 120
aaatagtttt atcttgttgn tgccagaaat gcacttqtgc cagggnattgn cctgctgtga 180
```

```

tgaaaagctt cttggcaatg aattctgtaa taagtgcctt acattatggn tttctggtgg 240
aattggttta acangacaa cccaggattt ccaatatatt tttgt 285

```

```

<210> 1723
<211> 536
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 33, 66, 67, 68, 406, 437, 450, 462, 498, 515, 516
<223> n = A,T,C or G

```

```

<400> 1723
cttggcttgc aggtggcacc ttctcactat gtntcacat ggccttttct ctgtggagag 60
ggacannnag catgagcagg ctctggtgtc tcctcttctt ataaagacac taatatcacc 120
atattagggc ttaaacctat gacctcattt aaccttaacc ccttaaagggt cccatctcca 180
aaaacagtca catagcaggc tactgcttca acatatgcat ttggggggagg ggacaccatt 240
cagttcttaa caggggtggc accgcaaaca tggaaagtca gagccttctc cccttcagaa 300
ttcccgcccc caccagggga tggggaagag gagcagagag gtatgggaag cagacacgga 360
gagtggcagg taccatgctg ggggtgggtc aggagtgtt tcgganggac atatggaact 420
ggcaggggtc aatgcangga gggcggaagn ccttggaag ancccggtggc ctgagaaagg 480
ggctgggcta caaccctngg caagttactt tacnntgac cttcgatgct tttggg 536

```

```

<210> 1724
<211> 145
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 4, 12, 27, 32, 45, 47, 48, 59, 61, 65, 93, 98, 103, 121
<223> n = A,T,C or G

```

```

<400> 1724
ctgncctttt gnaacaggac cctcacncta tncaatgggg ggtnnanntg aagcatganc 60
ntatncatgc ggaaaaccca actcatgtga gcncaaancg gancgacca gacaaccatg 120
natgaggcta atatggggag agaaa 145

```

```

<210> 1725
<211> 173
<212> DNA
<213> Homo sapiens

```

```

<400> 1725
caattctgga attaccact tgtttaattt tgagcaacat gatctagcat taatgtagtc 60
acattctaaa tcagacaatg taattatgaa gtagaccgag aggaagatga gcgcgcaaca 120
atcgaggaga gagaagacga acaccaccgc ctccatcctc ctctccgtc gcc 173

```

```

<210> 1726
<211> 302
<212> DNA
<213> Homo sapiens

```

<400> 1726  
 acccgttgga aatgggccat ggtctaattt ggtgttgaaa taaactaacc tctttggctg 60  
 tttctcccaa actgccacca gccaggcaag gccaatccaa tactgactgc tggctggggg 120  
 agctcgtaat gggatgatgcc gccctgcttt ttgcatatgt caggctaaca ggtgctttat 180  
 ttccagagaa ttgttaatgc ccttttttga aaagagcagc agaaattccg gacaagaatc 240  
 tgaaaaatag gtgtcaaaaa ctatttccca gaaggtagct gtacaggagt ttgagtctcc 300  
 ag 302

<210> 1727  
 <211> 274  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 3, 4  
 <223> n = A,T,C or G

<400> 1727  
 ttnggttgaa aaaatagatc caatcagttt ataccctagt tagtgttttg cctcacctaa 60  
 taggctggga gactgaagac tcagcccggg tggggctgca gaaaaatgat tggccccagt 120  
 ccccttggtt gtcccttcta caggcatgag gaatctggga ggccctgaga cagggattgt 180  
 gcttcattcc aatctattgc ttcacatgg ccttatgagg caggtgagag atgtttgaat 240  
 ttttctcttc cttttagtat tcttagttct tcag 274

<210> 1728  
 <211> 415  
 <212> DNA  
 <213> Homo sapiens

<400> 1728  
 aaatcccttt ctgcttccac tggaggcaaa actgaacaaa atgttagtta aatagagaga 60  
 gcagcatttc taagaaatct gtggtcagca ttatagacca tctatgctac aaggatgtca 120  
 ttaaatagga ttgtttcaat tactggattc ttcttctatg atcagttata gaatttctgg 180  
 tttatatctc tgattcataa aactgggact ccactttttg aagatacatc tgattgattt 240  
 ttttcagtca tgatttaaca gacttctttg agatgctcat tttaacattt acataattta 300  
 taatcccaaa tgtataaaag acaatgaaaa aagcatcata aataaataat gcaaaatgaa 360  
 atagttatgt cagacttttg gaccttctga taaattagca aaactgtaac agaaa 415

<210> 1729  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4  
 <223> n = A,T,C or G

<400> 1729  
 acanaccgta tacttttatgc aaacaaagtg atgcctcact gacttaggag acaagtcaca 60  
 tgccatcagt gtgtcagaaa atttctttct tcagtgatag ttaaggtaac ctgccagct 120  
 actttccaga gacagctcca gggcaatact ggggaaaaaa aaatcagaga cataggacct 180  
 caatagagcc ctgtgcaaca aaaagatgct agataacaaa actcaaagca aaactaagat 240

cattccaatt taggggaaag tttttttatt cagtgtttaa gattaaaaac tacaagattt 300  
tgcttgcatg 309

<210> 1730  
<211> 285  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 2  
<223> n = A,T,C or G

<400> 1730  
anctgtactg tatttatggt gctattggct aaaagagatc cactgttgcc cagttggtga 60  
agagacttac agatgcagat gccatgaagt acaccattgt ggtgtcggct acggcctcgg 120  
atgctgcccc acttcagtac ctggctcctt actctggctg ctccatggga gagtatttta 180  
gagacaatgg caaacatgct ttgatcatct atgacgactt atccaaacag gctgttgctt 240  
accgtcagat gtctctgttg ctccgcgcac cccctggctg tgagg 285

<210> 1731  
<211> 244  
<212> DNA  
<213> Homo sapiens

<400> 1731  
cattaccttg ctaaaatttc cactaagcta cagcttcaga tatttacaag aaaaataaat 60  
atcttttaac agacttcaat gtgggttaac agcaagctag ctgaggagtt gtattttggt 120  
gttatttcag gtaacttttt attaagaaac agttaatatt tcagcgatta caatttcagg 180  
tgttcaaaac tcaagaaggg tcatcattat actctgaagc agaattcttc aggtactcat 240  
cttt 244

<210> 1732  
<211> 272  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 9, 65, 192, 210, 212  
<223> n = A,T,C or G

<400> 1732  
ctgggaagnc agttcgttct ctctctcct ctcttcttgt ttgaacatgg tgcggactaa 60  
agcanacagt gttccaggca cttacagaaa agtggtggct gctcgagccc ccagaaagggt 120  
gcttggttct tccacctctg ccactaattc gacatcagtt tcatcggagg aaagctgaaa 180  
ataaatatgc angagggaac cccgtttgcn tncgcccaac tcccaagtgg caaaaaggaa 240  
ttggagaatt ctttatgttg tcccctaaag at 272

<210> 1733  
<211> 388  
<212> DNA  
<213> Homo sapiens



<220>  
 <221> misc\_feature  
 <222> 2  
 <223> n = A,T,C or G

<400> 1733  
 anttgggaaga gcatatgaac acggggccagc tagcaggatt ttcacatcaa attagaagtc 60  
 tgatttttgaa taatatcatc aataagaagg agtttgggat tttggcaaag accaaatact 120  
 ttcaaagtgt gaagatgcat gcgatgaata ccaacaatat cactgagcta gtgaactatt 180  
 tggcaaagtga ctttaagtta gatgaagctt cagtcttgat aactgaatat tcaaagcact 240  
 gcgggaaacc tgtgcctcca gacactgctc cctgtgaaat tctgaagatg tttcttagtg 300  
 gattatcgta aatcactgaa cctttttttc aagaaggaca agaatttttg agtctgctat 360  
 taatgggacc atatttatta cagttttt 388

<210> 1734  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<400> 1734  
 tttggaatgt aaaattaatg gtatctggta tcaagttgta agaaaaactc cccagatttg 60  
 ggaggtaact gaggatgatg tgaaagaatc ttcccgtctg aatttaagaa tacacctaca 120  
 ctgggcagaa aaaggtgggg gagaggaagt agaagtagag gaaaagcaca actccactgg 180  
 cttcaatcaa actgaggtaa ctaattagag acggaaaata aataaatcaa caaatgcccc 240  
 atttttgttt tccaaaaaag atcactggca actaacaatt tt 282

<210> 1735  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1  
 <223> n = A,T,C or G

<400> 1735  
 ntaagccagc cttcctcaag aatgccagac agtggacaga gaagcatgca agacagaaac 60  
 aaaaggctga tgaggaagag atgcttgata atctaccaga ggctggtgac tccagagtac 120  
 acaactcaac acagaaaagg aaggccagtc agctagtagg catagaaaag aaatttcatc 180  
 ctgatgttta ggggacttgt cctggttcat cttagttaat gtgttctttg ccaaggtgat 240  
 ctaagttgcc taccttgaat tttttttt 268

<210> 1736  
 <211> 478  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2  
 <223> n = A,T,C or G

<400> 1736

```

tnatagaactt ttccaatggc ccccttataa caccagaaag gattgtaatc ttgggogtat 60
tttgtgctgg catcttttggc agttgtgaag atcttgtacc agagcgtggc gttgctgtac 120
gtgtcaggaa cacagtgcgg tggctgtaca gtgacgggga acaccccagg gctggccgtg 180
agggtcatgc aggctgtgaa taccacctgc tcacagtgc cgtggagggc gcagtcactc 240
gagctccacg ctgtaggcag ggtgaagggt atgtttatct cctcgtgggc ttccctgcct 300
gaaagtccaa tctgatgccc taagatgggt gagtacagat gggtagcgtt gcgggaatac 360
cctccgaagg gtttcagtgg gtccagggtt agggtgattg agactgagat attcaccggg 420
cccagagtcct ccagggcctg gggggactgg gtggaagctc gggcctgccc gctgggtca 478

```

<210> 1737

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 5

<223> n = A,T,C or G

<400> 1737

```

ctttnaggat ggcgagtagc agcggctcca aggctgaatt cattgtcggg gggaaatata 60
aactggtagc gaagatcggg tctggctcct tcggggacat ctatttggcg atcaacatca 120
ccaacggcga ggaagtggca gtgaagctag aatctcagaa ggccaggcat cccagttgc 180
tgtacgagag caagctctat aagattcttc aagggtgggt tggcatcccc cacatacggg 240
ggtatggtca ggaaaaagac tacaatgtac tagtcatgga tcttctggga cctagcctcg 300
aagacctctt caatttctgt tcaagaagggt tcacaatgaa aactgtactt atgttagctg 360
accagatgat cagtagaatt gaatatgtgc atacaaagaa ttttatacac agagacatta 420
aaccagataa cttcctaatt ggtattgggc gtcactgtaa taagttattc cttattgatt 480
ttggtttgg                                     489

```

<210> 1738

<211> 262

<212> DNA

<213> Homo sapiens

<400> 1738

```

gttacagatg acatgtatgc agaacagacg gaaaatccag agaatccatt gagatgtccc 60
atcaagctct atgatttcta cctcttcaaa tgccccaga gtgtgaaagg ccggaatgac 120
accttttacc tgacacctga gccagtggtg gcccccaaca gcccaatctg gtactcagtc 180
cagcctatca gcagagagca gatgggacaa atgctgacac ggatcctggt gataagagaa 240
attcaggagg ccatcgcagt gg                                     262

```

<210> 1739

<211> 422

<212> DNA

<213> Homo sapiens

<400> 1739

```

ccaccatcct tttgagacag ttccatcaaa caatcttgaa ccataactaat acattacttg 60
ttcctgaagt ccttttgttg tagctcataa taaaataagc aatacaaatg aattatctgt 120
atttaaggga aaagaaacat ttacaagaaa acacaaaaat ataactgtta taattcatta 180
tgaataaata tacactttga actggctaag tacaatcttt atacattgtt taagatttaa 240
tacagtttat tagccatttt cttttttcac acaatgtata tcaaaattaa aaaaaaatac 300
tgatttatag aaaaatggca aagtacagta gttccattcc aatttgaagg gccatgaaaa 360

```

```
gccactgcaa gaccttttag cctaattcaa acctgtaaac atgttcagtc ttttttacct 420
gc 422
```

```
<210> 1740
<211> 92
<212> DNA
<213> Homo sapiens
```

```
<400> 1740
gctaaatacc tatctaattgt gctatgttta tcaaactcgtg tactaaaaatg gaaagctagt 60
tttgagaaat tattcagaag ccttggttatt tt 92
```

```
<210> 1741
<211> 188
<212> DNA
<213> Homo sapiens
```

```
<400> 1741
tttcaattct tccaaaaggc tcaaagatcc cacgaagcat atcttcagtt atgttgaagt 60
gtaatgagcc cacataaagc ctcataggtc cagcaattcc cttttgtaaa ttgtttgcc 120
ttgctgcagc tctgtttttt tctgectgtg atgcctgtac tatgattggc acgcctaaaa 180
ctcgttgg 188
```

```
<210> 1742
<211> 285
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 3
<223> n = A,T,C or G
```

```
<400> 1742
ttnaaaatac tttcaggctc caccaaaacg tagaactgaa agcatgtatt ttggaagaaa 60
gagatacatt ttgtatgctt tcttttcctt ttgtagattc ccagtttatt ttctaagact 120
gcaaagatca ctttgtcacc agccctggga cctgagacca aggggggtgtc ttgtgggcag 180
tgaggggggtg aggagaggct ggcattgaggt tcagtcattc cagtgcagctc caaagagggg 240
ccacctgttc tcaaaagcat gttgggggacc aggaggtaaa actgg 285
```

```
<210> 1743
<211> 117
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 2
<223> n = A,T,C or G
```

```
<400> 1743
angatctata gacacttttag gcaaaacagg ctcataaagc aattaaaaaa tcaacaattt 60
agtaaaaaca ggctacatag tattttgttt ttacgtttca ttgtctatt gatcttt 117
```

<210> 1744  
 <211> 111  
 <212> DNA  
 <213> Homo sapiens

<400> 1744  
 aaacaatggg ctaaaaataa acagtattaa aaggttaagt ttatataata catatgtaca 60  
 caattagtgg tgttttcttt tcagacaaaa tactgaaaca aatattagtt t 111

<210> 1745  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<400> 1745  
 ctgccagtag acccccggtc accctgaggc tggtggtccc tgctagtcag tgtggctctc 60  
 tcattggaaa aggtggatgc aagatcaagg aaatacgaga gactacaggg gctcaggtcc 120  
 aggtggcagg ggatatgcta cccaactcaa ctgagcgggc catcactatt gctggcattc 180  
 cacaatccat cattgagtgt gtcaaacaga tctgcgtggt catgttggag tccccccga 240  
 agggcgcgac catcccgtag cggcccaagc cgtccagctc tccggtcatc tttgcagggtg 300  
 gtcag 305

<210> 1746  
 <211> 319  
 <212> DNA  
 <213> Homo sapiens

<400> 1746  
 aaaataagtg aataagcgat atttattatc tgcaagggtt ttttgtgtgt gtttttgttt 60  
 ttattttcaa tatgcaagtt aggccttaatt tttttatcta atgatcatca tgaaatgaat 120  
 aagagggctt aagaatttgt ccatttgcac tcggaaaaga atgaccagca aaagggtttac 180  
 taataacctc ccctttgggg atttaattgtc tggtgctgcc gcctgagttt caagaattaa 240  
 agctgcaaga ggactccagg agcaaaaaga acacaatata gagggttgga gttgttagca 300  
 atttcattca aaatgccaa 319

<210> 1747  
 <211> 177  
 <212> DNA  
 <213> Homo sapiens

<400> 1747  
 aaatcctttt ccataaata aaagtacagt tttcttgggt gcagaatgaa aatcagcaac 60  
 ttctagcata tagactatat aatcagattg acagcatata gaatatatta tcagacaaga 120  
 tgaggaggta caaaagttac tattgctcat aatgacttac aggcataaat tagtttt 177

<210> 1748  
 <211> 237  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 12, 15, 25, 172, 225  
 <223> n = A,T,C or G

```

<400> 1748
ctgaaggant gnaantagac tggtnagagag aggaaggcac tgagccacat gaaggatatgt 60
acgtagggttt tgttcagtgg aaatagactg gtagagagag gaaggcactg aaccacatga 120
aggatatgtgt gtaggtttttg ttcagtggaa atagactggg agagagagga angcattgaa 180
tcacatgaag gtacgtgtgt aggttttgtt cactgacttc ttcantgtct cagccag 237

```

```

<210> 1749
<211> 244
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 87
<223> n = A,T,C or G

```

```

<400> 1749
aaaaggcccc attatctgac aaaatagatg gtgaacatgc actatcccag gatatctatt 60
attatccaaa gaagtgtttc tcaaagngtg gtccatggta ctgggtccatg aattgggttg 120
taccagtcaa tgaagagata aattacttgc atcagagtgt aaatcaatac attgctttag 180
ctattaataa aatttttgcta aaaaatcaaa tcctgtcatt gacctaaaaa gtatctctag 240
attt 244

```

```

<210> 1750
<211> 289
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 247
<223> n = A,T,C or G

```

```

<400> 1750
aggccagcct ccaccacgca cggcgaaagg agtgaactag ctggggacaca cacacgtgtg 60
aatgcatgca agcattcact gcattctctc cgtggactcc ctaccgctct tccatagccc 120
cccctttcag cctcactgtt tctcgtgtga gcctatctgc ttgggcagtc cactcgggag 180
gggggtcatg agccaggact ccctctaaat aggaatggaa aggaccctgc agatattttt 240
atcctanttg tgaaaacaag gtgcctctga ttctctatat ccatcacag 289

```

```

<210> 1751
<211> 594
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 558
<223> n = A,T,C or G

```

```

<400> 1751
ctggttatta atcacaagtc ctggaaatgg tctaatagacc gtgaatttga taaactcggc 60
agagtctaag atccttctca tggagctgat ttccaggtag ctgggggctt tgaaggacac 120

```

```

ccccgggggc atgccatcaa ccaccacaca gccagggtta attgtgattt tcctgtaggg 180
aactttcaca ggaaaaccca taccaatagc ttcaccaa atccgactaa agaggtcatt 240
cacttggttct cttagctgtc tagctttttc aacttttcgag agtctttcat tatcatcatc 300
tggaattgtc acctgaatga tggttaaggtc ttcaacacct gatgcagtag tattaacatt 360
gggtgatgaa tttatttttc tgggagggct cttagaggag gtgctctcct taatcgccgt 420
ctcaaacatt tcgggctttt taatgatgaa ctttaatttg gctttgtttc tgagtatctt 480
ctccagcctc ggaatgccaa aagtcgatgg tcttcggaat ggcacaccct caggtaagcc 540
ttccacataa aagtcttncg ggaaagactc aaataacgcg aacggcacct tcac 594

```

```

<210> 1752
<211> 311
<212> DNA
<213> Homo sapiens

```

```

<400> 1752
ctgaagggtt catggtctcc aaggcttggg ccgtgctgac agaatactac aaatccttgg 60
agaaagctta ggctgttaac ccagtcactc cacctttgac acattactag taacaagagg 120
ggaccacata gtctctgttg gcatttcttt gtgggtgtctg tctggacatg cttcctaaaa 180
acagaccatt ttccttaact tgcattcagtt ttgggtctgcc ttatgagttc tgttttgaac 240
aagtgttaaca cactgatggg tttaatgtat cttttccact tattatagtt atattcctac 300
aatacaattt t 311

```

```

<210> 1753
<211> 587
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 552, 561
<223> n = A,T,C or G

```

```

<400> 1753
ctgtccatta tacaccgtca cgttgatccc tgccctccagc aactcgtcca caatgctaatt 60
gactggcttc atgaagtctt cctccatggt cacaagagcg ttggtagcct ggccctcccca 120
ggattgatcc tcaggaataa ttttgagctt ctttctgatg gggccattca tgagctggct 180
taaggcatct cgttgtaggt gtctcacgtg gcgctgacaa agacaaacta ggtggctctg 240
tgtgaattct agactcgact ccattgtaga cgtgggagtg ctttttagtta agatgttata 300
gaagttcacc ccatctgtgt tctgttcaat gatcatttct gctttccccc acagctctgt 360
ggcctctctg tagagccctt tatttacggc attcagtact tgctctgcaa ccttagacac 420
ctctgccaga cttttgtctt cgagaagaga catgctgtac aggtaaggtc cccaggagag 480
caccgaatca acaggggaga tccaggaatc acccaaggca acccccgcaa agttgcactt 540
gatggtcctt cncatgaatgg ncttataaag ctctagacca atgccag 587

```

```

<210> 1754
<211> 564
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 409
<223> n = A,T,C or G

```

&lt;400&gt; 1754

```

cctctctcct  tggcttgacg  gtggcacctt  ctactatgt  cctcacatgg  ccttttctct  60
gtggagaggg  acagagagca  tgagcaggct  ctggtgtctc  ctcttcttat  aaagacacta  120
atatcaccat  attagggctt  aaacctatga  cctcatttaa  ccttaacccc  ttaaagggtc  180
catctccaaa  aacagtcaca  tagcaggcta  ctgcttcaac  atatgcattt  gggggagggg  240
acaccattca  gttcttaaca  ggggtggtcac  cgcaaacatg  gaaagtcaga  gccttctccc  300
cttcagaatt  cccgccccca  cccaggggatg  gggaagagga  gcagagaggt  atgggaagca  360
gacacggaga  gtggcaggta  ccatgctggg  gtggctcagg  agtgcttcng  aggacatatg  420
gaactggcag  ggctcagtgc  agggaggcgg  aggccttggg  agagccgtgt  cctgagaagg  480
gcctgggcta  caaccctggg  caagttactt  cacctctgag  cctccgatgc  tctgtgaaat  540
ggaaggaatg  tgcttgccctg  tcag

```

564

&lt;210&gt; 1755

&lt;211&gt; 214

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1755

```

aaatgtgatg  ttttgagcat  caaaaagcta  ctatctaaaa  ggattagtct  cccagtgttc  60
ttggtaaata  gggaagggtta  ggaaggaggc  aatgatccaa  tgaatataga  agaactggcc  120
gattcacagg  aaacttgctt  tggataaggt  gagtcaatgg  gtgatattgt  gcaggcaggg  180
agggaaatth  ctttgtacaa  attcatgtcc  ctgg

```

214

&lt;210&gt; 1756

&lt;211&gt; 225

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 8, 9, 40, 41, 76, 88, 89, 91, 100, 143, 181, 188, 197, 201, 202, 217

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 1756

```

aaaattanna  catacatggt  caggcagctt  ctgtccatan  ntaaaactatt  ccttttcagt  60
ctgagtaata  tgcggnttgt  tcttaatnnc  ncacattaan  aattttattta  gattggtgaa  120
actatcttta  taacaaaaaa  atncgaacat  gaatgcaaac  ttaccaaaca  gagcccacta  180
nattgatnaa  gttaatncca  nnatagtttg  ccatganctg  ggtgg

```

225

&lt;210&gt; 1757

&lt;211&gt; 282

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1757

```

ttgcagcctg  cgatgacaca  gcgaatctat  gacaagttta  tagctcagtt  gcagacatct  60
atccgggagg  aaatctctga  catcaaagag  gaggggaacc  tagaagctgt  cttgaatgcc  120
ttggataaaa  ttgtggaaga  aggcaaagtc  cgcaaagagc  cagcctggcg  cccagcggg  180
atccagaga  aggatctgca  cagtgttatg  gcaccctact  tcctgcagca  acgggacacc  240
ctgcggcgcc  atgtgcagaa  acaggaggcc  gagaaccagc  ag

```

282

&lt;210&gt; 1758

&lt;211&gt; 473

<213> Homo sapiens

ctgaaacagc	ttttcaagct	ctctctctct	gtcaaggatc	atgagaggca	ctccactcaa	60
ggggaggtgc	gcaatctggt	gctcttcagg	caggtcaaaa	ctctcaaagt	ctagaggatt	120
gaagggaag	aatttttcta	tttctggata	ggcatcatct	gaggcaggaa	cagagctttt	180
tgctttaaca	gtctttctcag	tcctcttttt	ggcagaaaag	cttggctggt	tttgtttgag	240
gggtcccttg	gtctttacag	acttttctgt	agctctgttg	acagttccca	aagcctttct	300
agtagcttta	ggtaaggctg	gtggggcatc	gaacgttttg	ccaaaacgtg	gtgttgaaac	360
ttgagatctc	ccatctaagg	ctttgattga	aggtccagac	cccagcttca	gcccactcct	420
agcaaccaca	cgggtgcttg	gttctccatt	ttccttatcg	acatagatca	gag	473

<213> Homo sapiens

aaacttcgac	atgatcgtgt	cttctgcact	catgatatgg	aaaggcttga	tctgtctcac	60
aggcagtgag	agcccccacg	tgggtggtgt	gagtggcagt	atggagccgg	cctttcacag	120
aggagacctc	ctgttcctca	caaattttccg	ggaagaccca	atcagagctg	gtgaaatagt	180
tggtttt						187

<213> Homo sapiens

cctctctcct	tggcttgcag	gtggcacctt	ctcactatgt	cctcacacgg	cctttttctct	60
gtggagaggg	acagagagca	tgagcaggct	ctgggtgtctc	ctctttcttat	aaagacacta	120
atatcaccat	attagggctt	aaacctatga	cctcatttaa	ccttaacccc	ttaaagggtcc	180
catctccaaa	aacagtcaca	tagcaggcta	ctgcttcaac	atatgcattt	gggggagggg	240
acaccattca	gttcttaaca	gggtggtcac	cgcaaacatg	gaaagtcaga	gccttctccc	300
cttcagaatt	ccgccccca	cccagggatg	gggaagagga	gcagagaggt	atgggaagca	360
gacacggaga	gtggcaggta	ccatgctggg	gtggctcagg	agtgtctcgg	aggacatatg	420
gaactggcag	ggctcagtg	agggaggcgg	aggccctggg	agagccgtgt	cctgagaagg	480
gcctgggcta	caaccctggg	caagttactt	cacctctgag	cctccgatgc	tctgtgaaat	540
ggaaggaatg	tgcttgcttg	tcag				564

<213> Homo sapiens

ctgtcttctc	atctatctta	gcataggagt	cctctgctgc	cttttcaata	cgcgcgtggt	60
atttctccaa	agcagttttc	aagtttagaa	atatttctcg	ggacttcagt	ttctcccttt	120
cagcagcatc	ttttagttgt	tgaattccaa	gtttaatttt	ttggatttct	tgattaattg	180
tggttactcg	ttcatagaca	gcacctcttt	tttcttgaac	tttattgcaa	tcctcaatta	240
ctgtgcgttt	gtattgctta	acatcttcat	gcttcttatt	tattttgaat	tgtgctgtgg	300
caagtttttc	cttcttcaca	atcatcagtc	ttttgaacga	attttcttca	gtcttcaatt	360
tcttcagttc	tgactcatca	ctctcaattt	ggctctccaa	gttcaggctt	ctg	413



<210> 1762  
 <211> 315  
 <212> DNA  
 <213> Homo sapiens

<400> 1762  
 ggaaaagaaa gagctgaaaa tgcagaaagc cgaagagtta gaacttttgg atacaggaga 60  
 agaaacagcg gctccactac agaccagcc ccaggttcaa tgcctccga agaatgaagt 120  
 ctttccctgg tgatgggtccc ctgccctgtc tttccagcat ccaactctcc ttgtcctcct 180  
 gggggcatat ctcagtcagg cagcggcttc ctgatgatgg tcgttggggg ggttgtcatg 240  
 tgatgggtcc cctccagggt actaaagggt gcatgtcccc tgcttgaaca ctgaagggca 300  
 ggtggtgggc catgg 315

<210> 1763  
 <211> 114  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 16  
 <223> n = A,T,C or G

<400> 1763  
 cgaccgccta agagtngcgc tgtaagaagc aacaacctct cctcttcgtc tccgccatca 60  
 gctcggcagt cggaagcag caaccatgcg tgagtgcac tccatccacg ttgg 114

<210> 1764  
 <211> 114  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 25, 33, 38, 53, 62, 71, 81, 83, 93, 102  
 <223> n = A,T,C or G

<400> 1764  
 ctaatacgac tcaatatacg gctcnagcgg cctccgngc cgggggctgc tcnnggttaga 60  
 tngacatgaa naccctacag ntnccactgt ggnaattgaa antatccctc atgt 114

<210> 1765  
 <211> 485  
 <212> DNA  
 <213> Homo sapiens

<400> 1765  
 aaacagtaac aaaacagaaa gcaagaatca ctgaacactg ggtgcagtca gttctaagtc 60  
 cttataataa ttgccaaaat tatttgaatg attcttcaag attaggctga tccctggcta 120  
 aggtctgtgt aaggcagaca agcgttattg atcatatcaa gtccctaca atatcctgtc 180  
 ctcaaaaccg gaagcaatga acatgatcct cttcggttgg ataaatgaac ttcctgtttg 240  
 gcctgcttct aggcctgcc agattctcat aacatcatat acgtaagtat agttcctcaa 300  
 agtgactgac atttatttta attttgcttt gttttttttt attttctccc ccattccttt 360

```

atcttggtgtt attcctgact cacttgacac tctctgatgc ctgagagatt cctgtttggg 420
atttaatatc cagggctgtg ttacagtaa aaaaagcagg cagtcccttt tagtttttcc 480
ttttt 485

```

```

<210> 1766
<211> 389
<212> DNA
<213> Homo sapiens

```

```

<400> 1766
aaaaacaaag tcttcaactt ggggtgttgag attggcaaaa ggggaagcaa gggaaaagcc 60
aaggaaagat aaaatattca gaagaaagtc aaagtatatc gcaattacat gttagaacag 120
atcttgacagg ttaaaaagat gttgcttaaa tatattcata aacctgttgt aagattttca 180
cttatgcagt ttcagaaaat ttagctgctt aacatatgac agaactgtat ttaacaaaat 240
gacattaaaa gtcaggagag ctactcagtt aattgataaa gtagaggcaa cgtgggggag 300
ccctcccccac gtttattgaa gatttggtgc tccccagcc ccgtttgcct gcatcaggct 360
aacaacctca ttctcccat agagcctgg 389

```

```

<210> 1767
<211> 176
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 16, 20, 21, 35, 119, 125, 133, 142, 165, 169, 176
<223> n = A,T,C or G

```

```

<400> 1767
tttttcaacg attaanaatn ntcattacat aactnggtga aactgaaaaa gtatatcata 60
tgggtacaca aggctatttg ccagcgtata ttaatatatt agaaaatatt ccttttgtna 120
tactnaatat cancatagag cnagaatcat attatcatat ttatnatant gttcan 176

```

```

<210> 1768
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1768
aaaagaaatc atggtacttc ttagagcaat ttgcaaaagg ggaaaaaagt cttaggctca 60
ctccttgga aataatattca agtaaccata aaaatattca gccatttttc agttattcgg 120
ggagttcagg catggtccca cgcagagcat cagagtctct ctttgaaata acccagcttt 180
gccaatgaca tctcttttct caactgcata acctcccaa acatctgatc aacatcctgc 240
tgtttcacaa gtccctgctg aatgtatcga atgtatgtaa aaaagttaca tacagaagtg 300
atcctgtatc tgcaaaaagg agaaatacaa taatagttgc ttgagtcctc taatttaatt 360
ctgtgtttac aggacttact ctgg 384

```

```

<210> 1769
<211> 111
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 91

<223> n = A,T,C or G

<400> 1769

```
aaatataaaa aattaaaagt taaaactcta gcccttcagt gaaggagacg taaaatggcg 60
tgggtaacaa caactaccaa aaaaaaaaaa naaaaaaaaa aaaaaaaaaa a 111
```

<210> 1770

<211> 225

<212> DNA

<213> Homo sapiens

<400> 1770

```
ctggctgaag gggccgtgga gctcccgcca gccacgatt agctgggcct tcttcggggc 60
aatgcgctga agactgcgga gatctcgggc tgagccttcg ttcagcagat ccagtatttt 120
ttggcgccca tgagccagta gctccgggct gatctgtagc tcccagcagt cctcagcctt 180
ctctcaggc tctagggcat ccagggactc cagctttctc ttccg 225
```

<210> 1771

<211> 223

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 39

<223> n = A,T,C or G

<400> 1771

```
ggccaagtaa aagctttatt tttttaaatg aaaactacna aaggcggggt gggttgtggc 60
gggggcaagt tgtggccctg taggaccttc ggtgactgat gatctaagtt tccggagggt 120
tctcagagcc tctctggttc tttcaatcgg ggatgtctga gggaccttc cgggcatcta 180
tgcgggcatg gttactgcct ctggtgcccc ccgcagccgc gcg 223
```

<210> 1772

<211> 419

<212> DNA

<213> Homo sapiens

<400> 1772

```
ccaagtctac aatgtcccaa tatcaaggac aaccacccta gcttcttagt gaagacaatg 60
tacagttatc cattagatca agactacacg gtctatgagc aataatgtga tttctggaca 120
ttgcccatgt ataatcctca ctgatgattt caagctaaag caaacacct tatacagaga 180
tctagaatct ctttatgttc tccagaggaa ggtggaagaa accatgggca ggagtaggaa 240
ttgagtgata aacaattggg ctaatgaaga aaacttctct tattgttcag ttcacccaga 300
ttataacttc aatgggacac tttagaccat tagacaattg acactggatt aaacaaattc 360
acataatgcc aaatacacia tgtatttata gcaacgtata atttgcaaag atggacttt 419
```

<210> 1773

<211> 172

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 3, 42, 66, 68, 77, 85, 104, 140  
 <223> n = A,T,C or G

<400> 1773  
 cgngcggctg cgggggggcac cagaggcagt ataccatgcc cncatagatg ccgcggaagg 60  
 tccctnanac atcccnatt gaaanaacca ttagaggctc tganaaacct acggaaactt 120  
 agatcatcag gtcaccgaan agtcctacag ggccacaaca tgccccctgc ac 172

<210> 1774  
 <211> 525  
 <212> DNA  
 <213> Homo sapiens

<400> 1774  
 ccttcactct cccctgaggc tgtcctggcc cggactgtgg ggagcacctc cccccccgg 60  
 agcagggtgca caccaggtta agcagggtcca ggggctgggg tgggcagggc tagcttttgg 120  
 atcctgagtg tcaactactct ctccctccag ggatgccctg gacctaaagt acatcaactc 180  
 agagcctcct cggggctcct tccccctcct tgagcctcgg aacctcctca gcctgtttga 240  
 ggacacccta gacccaacct gagccccaga ctctgcctct gcacttttaa ctttttatcc 300  
 tgtgtctctc ccgtcgccct tgaaagctgg ggccccctcg gaactcccat ggtcttctct 360  
 gcttgccggt gtctaataaa aagtatttga accttgggag cacccaagct tgctcatgtg 420  
 gcaacatggc ccttcctggt ccttttattg atgtcatcca gggctttaac gccctgagg 480  
 ctgagccctg ctgcagaacc cacgctcctg gccttgggcc agcag 525

<210> 1775  
 <211> 458  
 <212> DNA  
 <213> Homo sapiens

<400> 1775  
 aaattttcta gtcaaattaa taagcctttg tattatatgc catcctcctt tggaatgata 60  
 gcgggtataat taaaatagaa cttttttaac acagaatact tattggtgaa gtggtctctt 120  
 atgtagtctt cttttgacga gaacgttgag attttcgaac tttcagaact ttcttttttt 180  
 gatgtttttt cccattcttt tgctttttct tttggctgac ctgtttctcc cactttttta 240  
 tcagttcctt cacatctgct gaatctgggt ttagacatgt ttgaactcca ttcttcagt 300  
 tagcaatgat ttcaattttc tcgcaggaag ggcttggggc aaattgttta aggtctttca 360  
 aggattgtag gtggatagtc ccttgggttg tgctgatgca ggaacagcga ccctttctca 420  
 ctactggggt tccttgctact ccaatcagaa ccagcaag 458

<210> 1776  
 <211> 461  
 <212> DNA  
 <213> Homo sapiens

<400> 1776  
 aaagtttcac ttccctagca aaatatcttc agtcaagaaa ttagtctttg aaaattatga 60  
 aaattgttgt gggaaatatt tatacaaat attactgata atgcacatat attttgaaac 120  
 attgtttcta gaagcaataa aatataacct atttaggaga taaccctaat gatttgtaaa 180  
 aaaattaact ttagataaaag ggaaggatgt tgtgtaaaat caagtcaatt atttgagggt 240  
 ttataatat tgagtactta tgtactaagt cacaccagc cagtcaataa ctgagaaatc 300  
 aaaataaaat aataatttca aagaattaca taaatacagg gccttttgag atttttggca 360  
 attgtaaaca aaaacgaatg gtttttataa ttcagtgtaa ttctacgaat atttatttgg 420  
 caccatgtt aggcactgag gctacacagc agtgaaatag g 461

<210> 1777  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<400> 1777  
 ccaagttctg ctggaggagc actcaagtgt gacgagcagg gccactggac cctgcagggc 60  
 tgtggtgtat atagtgcagc tttggagggt gaactctatt ttcacacttt tctatggagc 120  
 cttccgagtc ccaggttttc acttgaggct gtctgtctgg atggcggttt tcagacctcc 180  
 attaacatcc ctaccagca ttctgtactt cgggggcctt ctctcttggt ataaaacttt 240  
 ttaccaagtg aaacatcgat accacctttg ttccattct cactggtgta aatactgagt 300  
 actaactgag aattttgact ttgcattctg tcggaatact tgtgttcaat aaaaattgaa 360  
 agaaaaaa 368

<210> 1778  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 211, 416, 499, 518  
 <223> n = A,T,C or G

<400> 1778  
 cagttatgcg aaaacatggc tgcggccggt ttggcccttc tttgtaggag agtttcatcc 60  
 gccctgaaat cttcccgatc gttaataact cctcaggtcc ctgcctgcac agggtttttt 120  
 cttagtttgt tgcctaagag tacaccaaat gtgacatcct ttcaccaata tagattactt 180  
 cataccacat tgtcaaggaa aggactagaa naattttttg atgacccaaa aaactggggg 240  
 caagaaaaag taaaatctgg agcagcatgg acctgtcagc aactaaggaa caaaagtaat 300  
 gaagatttac acaaaacttg gtatgtctta ctgaaagaaa gaaacatgct tctaacccta 360  
 gagcaggagg ccaagcggca gagattgcca atgccaaagtc cagagcggtt agatanggtg 420  
 gtagattcca tggatgcatt agataaagtg gtccagggaa agagaagatg ccctaaggct 480  
 tcttcagact ggtcaagana gagctagacc tgggtgctntg gagaaagaag acatcttttg 540  
 aaagaatcat ctgg 554

<210> 1779  
 <211> 379  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 42, 378  
 <223> n = A,T,C or G

<400> 1779  
 gtcttggtcg ggcattgaaa ccgcgtcagc tgccctggcg tnactgacga tggcatggct 60  
 gtggcgacag ggctcctggga tagcttcctc aagatctgga actaacgcca gtagcatgtg 120  
 gatgccatgg agactggaag accattccaa cttggacgcg ttaccatgag agcatatcct 180  
 atccaaccgt actaacgtgg acaccctaca cctcccctca gaacttcaaa agggcaagat 240  
 cttttttcct tcaattattg ctgagaccaa gagcacaatt ccatttgaga gaaagatctc 300  
 tgtgctgtaa actaaaacaa attgtgcatt cttccgggg ccacgtctt tgtcttctt 360

379

 $\langle 211 \rangle$  222

<212> DNA

<213> Homo sapiens

<400> 1780

ctggtaattg	cagaatccac	tttgctgtg	taagtaaaa	atatagaactg	ttatcttggt	60
ggccctatga	aattctgcac	ttttcattat	atactctacc	ttcattaatt	acttctggca	120
agatgttctg	ccttagcact	cagttgcatt	cttttccctt	ttcttctctgt	tcattatgct	180
ttaattctga	ggaccatatg	agggtagaat	atattatctt	tt		222

<210> 1781

<211> 292

<212> DNA

<213> Homo sapiens

<400> 1781

ctgctggagc	aagccctgcg	gaagcacaac	gtggctgagc	cgtgttccat	caaagtcctt	60
gacaaggcta	cggtaccaat	aataaagctc	acagatcagg	agactgaagt	gaaagttgac	120
atcagcttta	acatggagac	ggggcgtccg	gcagcggagt	tcatcaagaa	ttacatgaag	180
aaatattcat	tgctgcctta	cttgatttta	gtattgaac	agttccttct	gcagagggac	240
ctgaattgaag	tttttacagg	tggaattagc	tcatacagcc	taattttaat	gg	292

<210> 1782

<211> 381

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> misc feature

<222> 132

<223> n = A, T, C or G

<400> 1782

aaaacctgga	cctttctgga	agggcagcat	ataaaaaacat	cagtcctcgag	gagggggacaa	60
caatactacc	tcactactac	atctgtgatg	actggttgtt	caaacacaat	ggagtgtgta	120
aggtatatgt	tnataaatc	ataaccatag	cctcgatcat	caagaaatac	tttcgaaatt	180
tcattttcct	tcagaatata	ttaagagtgc	taaattttta	actgcctttt	tgtcgaagtca	240
aactgtggga	ttctgatttg	tattaaaaatt	gtaagctcct	cactgggtata	ctatcatcct	300
ggaggggtgt	tgtatggctg	agcaagagag	agagagaatg	agagagagac	tgtgtgtgtg	360
tgtgtgtgtg	tgtgtgtgca	c				381

<210> 1783

<211> 127

<212> DNA

<213> Homo sapiens

<400> 1783

```

aaatatctat gtcacagcaa acagggtggca attcaacatc cagggtcgac agaatgcttg 60
aaggagactg caacagattg gattcccatg gtggagaggg catcttcaca ggtgaagggg 120
ggcccag                                         127

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<220>
<221> misc_feature
<222> 22
<223> n = A,T,C or G
```

<400> 1787

atgatgatta ctttcacatc gnaatccaac ctgaagagta ctttgttctc caatgttgct 60  
gtcaacattc agccatttat ccttat 86

<210> 1788

<211> 354

<212> DNA

<213> Homo sapiens

<400> 1788

ccttgaaaat ccgcctgcaa gcctaccaca ctcaaaccac ccactcata gagtactaca 60  
ggaaacgggg gatccactcc gccatcgatg catcccagac ccccgatgtc gtgttcgcaa 120  
gcacccctagc agccttctcc aaagccacat cctagtatca gaaggccagg cgagactgca 180  
acactgctca tcaccccgcg gcgtgatccc tgctcttagg tgctgggcag aggggaagg 240  
tggtcagggg gaggatgggt agggaggggt ggtgaggggc tcagaggaat acttgggaaca 300  
acagcagtgt tattgtagt tggcagtttc ttttatacat aggtgagagt tttt 354

<210> 1789

<211> 651

<212> DNA

<213> Homo sapiens

<400> 1789

taaagggtt cttgcttttt tgaatacaaa acatgatcta ttgtaataaa aaggtaagac 60  
attgatttta caaaattata tttccaaata cagataaaaa aatcttgaac agttaattca 120  
gattttattg atctaaaatg tgcaaaaatat ctgataatac ttaagtttat taaattcatt 180  
gtacataggc tgatatcatc ccatacaaaa aaatgctcag tatcttgta agattcaaaa 240  
tagtgtttaa ttatctgagc ttaagattta ttgaactact atccaaataa caacaaaagt 300  
ccatattgta aaagaaaaaa gtaaaactaa aaattttctg attattaatt gacttgaat 360  
tcattcccat taaaacataa aactatagcc aatatccatt tgaaaagtga agaaaaactg 420  
gaagtcocca tgataaatac accaattcca aataaaaaat taaaatcaaa ttttgctatt 480  
caaaacacac atgatctttt aagttattca ggtttaatag atttactaag gatagagttc 540  
atagagcatg tatttggtac ttctgttttag actcaggttt tgcaaagtcc ccaagagaag 600  
gtgagaagggt aaaataaaca taaaattggg atccttctct cccaccacac c 651

<210> 1790

<211> 388

<212> DNA

<213> Homo sapiens

<400> 1790

aatcatgtt taacacagtg tacacaagtc agtccaacag ttagtgttta ttactaataa 60  
tatatgaaaa ccttgccaac acaattgctg ctacatcacc aatataatta ttaaccactg 120  
tcggaaaaac acacataaat tcaggtaaga ctaaaagctg tctcacaaaa agaaaaaaga 180  
aatccaatgg atccactaat gctatcaaaa gggacatgca ggaatgtaac atgacatttt 240  
tagaaatgtg tgtttctaaa aagaaaaaaa aatacactaa aatgccagtg gactataatt 300  
cattcaaaac atcttttagt ttccttccca aagatcttga tctgctcagt aattgcttca 360  
caagatctat cacagccatc ttttggag 388

<210> 1791

<211> 2442

<212> DNA

<213> Homo sapiens



&lt;400&gt; 1791

```

cgggagcttg aaggacacaa gaatgggagg aaaggcggac tctcaggaac ttcattcttc 60
acgtggttta tgggtgattgc attgctgggc gtctggacat ctgtagctgt cgtttggttt 120
gatcttggtg actatgagga agttctagga aaactaggaa tctatgatgc tgatggtgat 180
ggagattttg atgtggatga tgccaaagtt ttattaggac ttaaagagag atctacttca 240
gagccagcag tcccgccaga agaggctgag ccacacactg agcccagga gcaggttcct 300
gtggaggcag aaccccagaa tatcgaagat gaagcaaaag aacaaattca gtcccttctc 360
catgaaatgg tacacgcaga acatgttgag ggagaagact tgcaacaaga agatggaccc 420
acaggagaac cacaacaaga ggatgatgag tttcttatgg cgactgatgt agatgataga 480
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gagacagttt cacaagactg taatcaggat atggaagaga tgatgtctga gcaggaaaat 600
ccagattcca gtgaaccagt agtagaagat gaaagattgc accatgatac agatgatgta 660
acataccaag tctatgagga acaagcagta tatgaacctc tagaaaatga agggatagaa 720
atcacagaag taactgtccc cctgaggat aatcctgtag aagattcaca ggtaattgta 780
gaagaagtaa gcatttttcc tgtggaagaa cagcaggaag taccaccaga tacttaaagc 840
ttcaaaaaga ctgcccctac caccacagga ggaccagcct aaccatacgc tccaaaagat 900
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cagtgcctct actagatgaa ctcagtaacg ccttgagctg ggttgattga ggatgtgtga 1800
aaaagctcac agagcccgat gcctgctgct atttcacggc aatgagcctt tttctttcta 1860
cactgaagat tttcttctta tttaatgtgg tttattttgg gctcagaaat aattgctctg 1920
ttgaaaataa tcttttgtca gaaaagaagg tagctaccac atcatttttg aaggaccatg 1980
agcaactata agcaaagcca taagaagtgg tttgatcgat atattagggg tagctcttga 2040
ttttgttaac attagataa ggtgactttt tccccctgct tttaggatta aaatcaaaga 2100
tacttctata tttttatcac tatagatcat agttattata caatgtagtg agtcctgcat 2160
gggtactcga tgtgtaatga aacctgaaat aataataaga taataagaaa agcaataatt 2220
ttctaaagct gtgctgtcgg tgatacagag atgatactca aattataata aaactcttca 2280
ttttgtgaat tatagaagct actttttata aagccatatt tttttaggga aactaaggag 2340
tgacatagaa ctgatgaatg agtaaaagta agttttgctg gatttttgta gaactctgga 2400
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&lt;210&gt; 1792

&lt;211&gt; 2279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1792

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<210> 1793  
 <211> 1904  
 <212> DNA  
 <213> Homo sapiens

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<210> 1794
<211> 2881
<212> DNA
<213> Homo sapiens

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<210> 1795
<211> 422
<212> DNA
<213> Homo sapiens

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<222> 295, 378, 390
<223> n = A,T,C or G

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gg 422

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<210> 1796
<211> 797
<212> DNA
<213> Homo sapiens

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<210> 1797

<211> 4600

<212> DNA

<213> Homo sapiens

<400> 1797

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<210> 1798  
 <211> 1635  
 <212> DNA  
 <213> Homo sapiens

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<210> 1805
<211> 791
<212> DNA
<213> Homo sapiens

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<210> 1806
<211> 255
<212> PRT
<213> Homo sapiens

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<400> 1806

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Phe Asp Leu Val Asp Tyr Glu Glu Val Leu Gly Lys Leu Gly Ile Tyr
      20           25           30
Asp Ala Asp Gly Asp Gly Asp Phe Asp Val Asp Asp Ala Lys Val Leu
      35           40           45
Leu Gly Leu Lys Glu Arg Ser Thr Ser Glu Pro Ala Val Pro Pro Glu
      50           55           60
Glu Ala Glu Pro His Thr Glu Pro Glu Glu Gln Val Pro Val Glu Ala
65           70           75           80
Glu Pro Gln Asn Ile Glu Asp Glu Ala Lys Glu Gln Ile Gln Ser Leu
      85           90           95
Leu His Glu Met Val His Ala Glu His Val Glu Gly Glu Asp Leu Gln
      100          105          110
Gln Glu Asp Gly Pro Thr Gly Glu Pro Gln Gln Glu Asp Asp Glu Phe
      115          120          125
Leu Met Ala Thr Asp Val Asp Asp Arg Phe Glu Thr Leu Glu Leu Glu
      130          135          140
Val Ser His Glu Glu Thr Glu His Ser Tyr His Val Glu Glu Thr Val
145          150          155          160
Ser Gln Asp Cys Asn Gln Asp Met Glu Glu Met Met Ser Glu Gln Glu
      165          170          175
Asn Pro Asp Ser Ser Glu Pro Val Val Glu Asp Glu Arg Leu His His
      180          185          190
Asp Thr Asp Asp Val Thr Tyr Gln Val Tyr Glu Glu Gln Ala Val Tyr
      195          200          205
Glu Pro Leu Glu Asn Glu Gly Ile Glu Ile Thr Glu Val Thr Val Pro
      210          215          220
Pro Glu Asp Asn Pro Val Glu Asp Ser Gln Val Ile Val Glu Glu Val
225          230          235          240
Ser Ile Phe Pro Val Glu Glu Gln Gln Glu Val Pro Pro Asp Thr
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<210> 1807  
 <211> 226  
 <212> PRT  
 <213> Homo sapiens

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<400> 1807
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Ala Asn Val Leu Leu Ser Phe Gln Met Thr Ser Asp Glu Leu Pro Lys
      35           40           45
Glu Asn Trp Leu Lys Met Leu Cys Arg His Val Ala Asn Thr Ile Cys
      50           55           60
Lys Ala Asp Ala Glu Asn Leu Ile Tyr Thr Ala Asp Pro Glu Ser Phe
65           70           75           80
Glu Val Asn Thr Lys Asp Met Asp Ser Thr Leu Ser Arg Ala Ser Arg
      85           90           95
Ala Ile Lys Lys Thr Ser Lys Lys Val Thr Arg Ala Phe Ser Phe Ser
      100          105          110

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Lys Thr Pro Lys Arg Ala Leu Arg Arg Ala Leu Met Thr Ser His Gly  
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 Ser Val Glu Gly Arg Ser Pro Ser Ser Asn Asp Lys His Val Met Ser  
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 Arg Leu Ser Ser Thr Ser Ser Leu Ala Ile Thr His Ser Val Ser Thr  
 145 150 155 160  
 Ser Asn Val Ile Gly Phe Thr Lys His Val Tyr Val Gln Arg Leu Asn  
 165 170 175  
 Ser Thr Gly Gly Arg Ser Gln Tyr Ser Trp Phe Gln Ser Val Arg His  
 180 185 190  
 Ser Ala Phe Arg Ala Ser Phe Ser Glu Ile Leu Glu Gly Asn Thr Asp  
 195 200 205  
 Phe Ser Asn Phe Lys Lys Val Leu Ser Lys Ser Ser Leu Thr Phe Val  
 210 215 220  
 Lys Asn  
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<210> 1808  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 1808  
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 Thr Tyr Phe Tyr Leu Asp Glu Gly Ser Gly Arg Val Glu Gln Lys Gln  
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 Ala Asn Val Glu  
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<210> 1809  
 <211> 592  
 <212> PRT  
 <213> Homo sapiens

<400> 1809  
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 Thr Asn Gly Arg Leu Met Ala Asn Pro Glu Ala Leu Lys Ile Leu Ser  
 20 25 30  
 Ala Ile Thr Gln Pro Met Val Val Ala Ile Val Gly Leu Tyr Arg  
 35 40 45  
 Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Lys Lys Gly  
 50 55 60  
 Phe Ser Leu Gly Ser Thr Val Gln Ser His Thr Lys Gly Ile Trp Met  
 65 70 75 80  
 Trp Cys Val Pro His Pro Lys Lys Pro Gly His Ile Leu Val Leu Leu  
 85 90 95  
 Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Asn Gln Asn Asp  
 100 105 110

Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Ser Ser Thr Phe Val Tyr  
 115 120 125  
 Asn Ser Ile Gly Thr Ile Asn Gln Gln Ala Met Asp Gln Leu Tyr Tyr  
 130 135 140  
 Val Thr Glu Leu Thr His Arg Ile Arg Ser Lys Ser Ser Pro Asp Glu  
 145 150 155 160  
 Asn Glu Asn Glu Val Glu Asp Ser Ala Asp Phe Val Ser Phe Phe Pro  
 165 170 175  
 Asp Phe Val Trp Thr Leu Arg Asp Phe Ser Leu Asp Leu Glu Ala Asp  
 180 185 190  
 Gly Gln Pro Leu Thr Pro Asp Glu Tyr Leu Thr Tyr Ser Leu Lys Leu  
 195 200 205  
 Lys Lys Gly Thr Ser Gln Lys Asp Glu Thr Phe Asn Leu Pro Arg Leu  
 210 215 220  
 Cys Ile Arg Lys Phe Phe Pro Lys Lys Lys Cys Phe Val Phe Asp Arg  
 225 230 235 240  
 Pro Val His Arg Arg Lys Leu Ala Gln Leu Glu Lys Leu Gln Asp Glu  
 245 250 255  
 Glu Leu Asp Pro Glu Phe Val Gln Gln Val Ala Asp Phe Cys Ser Tyr  
 260 265 270  
 Ile Phe Ser Asn Ser Lys Thr Lys Thr Leu Ser Gly Gly Ile Gln Val  
 275 280 285  
 Asn Gly Pro Arg Leu Glu Ser Leu Val Leu Thr Tyr Val Asn Ala Ile  
 290 295 300  
 Ser Ser Gly Asp Leu Pro Cys Met Glu Asn Ala Val Leu Ala Leu Ala  
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 325 330 335  
 Gln Gln Met Gly Gln Lys Val Gln Leu Pro Thr Glu Ser Leu Gln Glu  
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 Ile Arg Ser Ser Phe Lys Asp Val Asp His Leu Phe Gln Lys Glu Leu  
 370 375 380  
 Ala Ala Gln Leu Glu Lys Lys Arg Asp Asp Phe Cys Lys Gln Asn Gln  
 385 390 395 400  
 Glu Ala Ser Ser Asp Arg Cys Ser Gly Leu Leu Gln Val Ile Phe Ser  
 405 410 415  
 Pro Leu Glu Glu Glu Val Lys Ala Gly Ile Tyr Ser Lys Pro Gly Gly  
 420 425 430  
 Tyr Arg Leu Phe Val Gln Lys Leu Gln Asp Leu Lys Lys Lys Tyr Tyr  
 435 440 445  
 Glu Glu Pro Arg Lys Gly Ile Gln Ala Glu Glu Ile Leu Gln Thr Tyr  
 450 455 460  
 Leu Lys Ser Lys Glu Ser Met Thr Asp Ala Ile Leu Gln Thr Asp Gln  
 465 470 475 480  
 Thr Leu Thr Glu Lys Glu Lys Glu Ile Glu Val Glu Arg Val Lys Ala  
 485 490 495  
 Glu Ser Ala Gln Ala Ser Ala Lys Met Leu Gln Glu Met Gln Arg Lys  
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 515 520 525  
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 545 550 555 560  
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<210> 1810  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1810  
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<210> 1811  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<400> 1811  
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 20 25 30  
 Val Leu Thr Lys Met Tyr Pro Arg Gly Asn His Trp Ala Val Gly His  
 35 40 45  
 Leu Met Gly Lys Lys Ser Thr Gly Glu Ser Ser Ser Val Ser Glu Arg  
 50 55 60  
 Gly Ser Leu Lys Gln Gln Leu Arg Glu Tyr Ile Arg Trp Glu Glu Ala  
 65 70 75 80  
 Ala Arg Asn Leu Leu Gly Leu Ile Glu Ala Lys Glu Asn Arg Asn His  
 85 90 95  
 Gln Pro Pro Gln Pro Lys Ala Leu Gly Asn Gln Gln Pro Ser Trp Asp  
 100 105 110  
 Ser Glu Asp Ser Ser Asn Phe Lys Asp Val Gly Ser Lys Gly Lys Val  
 115 120 125  
 Gly Arg Leu Ser Ala Pro Gly Ser Gln Arg Glu Gly Arg Asn Pro Gln  
 130 135 140  
 Leu Asn Gln Gln  
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<210> 1812  
 <211> 474

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1812

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      20           25           30
Ser Pro Thr Pro Gly Ser Thr Ala Ser Thr Gly Gly Lys Ala Asp Asp
      35           40           45
Pro Ser Trp Cys Lys Thr Pro Ser Gly His Ile Lys Arg Pro Met Asn
      50           55           60
Ala Phe Met Val Trp Ser Gln Ile Glu Arg Arg Lys Ile Met Glu Gln
 65           70           75           80
Ser Pro Asp Met His Asn Ala Glu Ile Ser Lys Arg Leu Gly Lys Arg
      85           90           95
Trp Lys Leu Leu Lys Asp Ser Asp Lys Ile Pro Phe Ile Arg Glu Ala
      100          105          110
Glu Arg Leu Arg Leu Lys His Met Ala Asp Tyr Pro Asp Tyr Lys Tyr
      115          120          125
Arg Pro Arg Lys Lys Val Lys Ser Gly Asn Ala Asn Ser Ser Ser Ser
      130          135          140
Ala Ala Ala Ser Ser Lys Pro Gly Glu Lys Gly Asp Lys Val Gly Gly
 145          150          155          160
Ser Gly Gly Gly Gly His Gly Gly Gly Gly Gly Gly Gly Ser Ser Asn
      165          170          175
Ala Gly Gly Gly Gly Gly Gly Ala Ser Gly Gly Gly Ala Asn Ser Lys
      180          185          190
Pro Ala Gln Lys Lys Ser Cys Gly Ser Lys Val Ala Gly Gly Ala Gly
      195          200          205
Gly Gly Val Ser Lys Pro His Ala Lys Leu Ile Leu Ala Gly Gly Gly
      210          215          220
Gly Gly Gly Lys Ala Ala Ala Ala Ala Ala Ser Phe Ala Ala Glu
 225          230          235          240
Gln Ala Gly Ala Ala Ala Leu Leu Pro Leu Gly Ala Ala Ala Asp His
      245          250          255
His Ser Leu Tyr Lys Ala Arg Thr Pro Ser Ala Ser Ala Ser Ala Ser
      260          265          270
Ser Ala Ala Ser Ala Ser Ala Ala Leu Ala Ala Pro Gly Lys His Leu
      275          280          285
Ala Glu Lys Lys Val Lys Arg Val Tyr Leu Phe Gly Gly Leu Gly Thr
      290          295          300
Ser Ser Ser Pro Val Gly Gly Val Gly Ala Gly Ala Asp Pro Ser Asp
 305          310          315          320
Pro Leu Gly Leu Tyr Glu Glu Glu Gly Ala Gly Cys Ser Pro Asp Ala
      325          330          335
Pro Ser Leu Ser Gly Arg Ser Ser Ala Ala Ser Ser Pro Ala Ala Gly
      340          345          350
Arg Ser Pro Ala Asp His Arg Gly Tyr Ala Ser Leu Arg Ala Ala Ser
      355          360          365
Pro Ala Pro Ser Ser Ala Pro Ser His Ala Ser Ser Ser Ala Ser Ser
      370          375          380
His Ser Ser Ser Ser Ser Ser Ser Ser Gly Ser Ser Ser Ser Asp Asp Glu
 385          390          395          400

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Phe Glu Asp Asp Leu Leu Asp Leu Asn Pro Ser Ser Asn Phe Glu Ser
      405                      410                      415
Met Ser Leu Gly Ser Phe Ser Ser Ser Ser Ala Leu Asp Arg Asp Leu
      420                      425                      430
Asp Phe Asn Phe Glu Pro Gly Ser Gly Ser His Phe Glu Phe Pro Asp
      435                      440                      445
Tyr Cys Thr Pro Glu Val Ser Glu Met Ile Ser Gly Asp Trp Leu Glu
      450                      455                      460
Ser Ser Ile Ser Asn Leu Val Phe Thr Tyr
465                      470

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&lt;210&gt; 1813

&lt;211&gt; 238

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1813

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Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
  1          5          10          15
Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
      20          25          30
Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
      35          40          45
Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
  50          55          60
Ala Pro Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly
  65          70          75          80
His Lys Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro
      85          90          95
Glu Leu Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr
      100         105         110
Ser Leu Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg
      115         120         125
Glu Arg Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg
      130         135         140
Glu His Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu
      145         150         155         160
Thr Leu Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu
      165         170         175
Asp Glu His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser
      180         185         190
Pro Thr Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly
      195         200         205
Ser Pro Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu
      210         215         220
Ser Pro Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
      225         230         235

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&lt;210&gt; 1814

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1814

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Met Val Tyr Tyr Pro Glu Leu Phe Val Trp Val Ser Gln Glu Pro Phe
 1           5           10           15
Pro Asn Lys Asp Met Glu Gly Arg Leu Pro Lys Gly Arg Leu Pro Val
           20           25           30
Pro Lys Glu Val Asn Arg Lys Lys Asn Asp Glu Thr Asn Ala Ala Ser
           35           40           45
Leu Thr Pro Leu Gly Ser Ser Glu Leu Arg Ser Pro Arg Ile Ser Tyr
           50           55           60
Leu His Phe Phe
65

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&lt;210&gt; 1815

&lt;211&gt; 572

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1815

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Met Ser Tyr Gln Gly Lys Lys Ser Ile Pro His Ile Thr Ser Asp Arg
 1           5           10           15
Leu Leu Ile Lys Gly Gly Arg Ile Ile Asn Asp Asp Gln Ser Leu Tyr
           20           25           30
Ala Asp Val Tyr Leu Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu Asn
           35           40           45
Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala Asn Gly Arg Met
           50           55           60
Val Ile Pro Gly Gly Ile Asp Val Asn Thr Tyr Leu Gln Lys Pro Ser
65           70           75           80
Gln Gly Met Thr Ala Ala Asp Asp Phe Phe Gln Gly Thr Arg Ala Ala
           85           90           95
Leu Val Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu Pro
           100          105          110
Gly Ser Ser Leu Leu Thr Ser Phe Glu Lys Trp His Glu Ala Ala Asp
           115          120          125
Thr Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Thr Ser Trp
           130          135          140
Tyr Asp Gly Val Arg Glu Glu Leu Glu Val Leu Val Gln Asp Lys Gly
145           150           155           160
Val Asn Ser Phe Gln Val Tyr Met Ala Tyr Lys Asp Val Tyr Gln Met
           165          170          175
Ser Asp Ser Gln Leu Tyr Glu Ala Phe Thr Phe Leu Lys Gly Leu Gly
           180          185          190
Ala Val Ile Leu Val His Ala Glu Asn Gly Asp Leu Ile Ala Gln Glu
           195          200          205
Gln Lys Arg Ile Leu Glu Met Gly Ile Thr Gly Pro Glu Gly His Ala
           210          215          220
Leu Ser Arg Pro Glu Glu Leu Glu Ala Glu Ala Val Phe Arg Ala Ile
225           230           235           240
Thr Ile Ala Gly Arg Ile Asn Cys Pro Val Tyr Ile Thr Lys Val Met
           245          250          255
Ser Lys Ser Ala Ala Asp Ile Ile Ala Leu Ala Arg Lys Lys Gly Pro
           260          265          270

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Leu Val Phe Gly Glu Pro Ile Ala Ala Ser Leu Gly Thr Asp Gly Thr  
 275 280 285  
 His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Phe Val Thr Ser  
 290 295 300  
 Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Tyr Leu Thr Ser Leu  
 305 310 315 320  
 Leu Ala Cys Gly Asp Leu Gln Val Thr Gly Ser Gly His Cys Pro Tyr  
 325 330 335  
 Ser Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro  
 340 345 350  
 Glu Gly Val Asn Gly Ile Glu Glu Arg Met Thr Val Val Trp Asp Lys  
 355 360 365  
 Ala Val Ala Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr  
 370 375 380  
 Ser Thr Asn Ala Ala Lys Ile Phe Asn Leu Tyr Pro Arg Lys Gly Arg  
 385 390 395 400  
 Ile Ala Val Gly Ser Asp Ala Asp Val Val Ile Trp Asp Pro Asp Lys  
 405 410 415  
 Leu Lys Thr Ile Thr Ala Lys Ser His Lys Ser Ala Val Glu Tyr Asn  
 420 425 430  
 Ile Phe Glu Gly Met Glu Cys His Gly Ser Pro Leu Val Val Ile Ser  
 435 440 445  
 Gln Gly Lys Ile Val Phe Glu Asp Gly Asn Ile Asn Val Asn Lys Gly  
 450 455 460  
 Met Gly Arg Phe Ile Pro Arg Lys Ala Phe Pro Glu His Leu Tyr Gln  
 465 470 475 480  
 Arg Val Lys Ile Arg Asn Lys Val Phe Gly Leu Gln Gly Val Ser Arg  
 485 490 495  
 Gly Met Tyr Asp Gly Pro Val Tyr Glu Val Pro Ala Thr Pro Lys Tyr  
 500 505 510  
 Ala Thr Pro Ala Pro Ser Ala Lys Ser Ser Pro Ser Lys His Gln Pro  
 515 520 525  
 Pro Pro Ile Arg Asn Leu His Gln Ser Asn Phe Ser Leu Ser Gly Ala  
 530 535 540  
 Gln Ile Asp Asp Asn Asn Pro Arg Arg Thr Gly His Arg Ile Val Ala  
 545 550 555 560  
 Pro Pro Gly Gly Arg Ser Asn Ile Thr Ser Leu Gly  
 565 570

<210> 1816  
 <211> 325  
 <212> PRT  
 <213> Homo sapiens

<400> 1816  
 Met Thr Glu Arg Arg Arg Asp Glu Leu Ser Glu Glu Ile Asn Asn Leu  
 1 5 10 15  
 Arg Glu Lys Val Met Lys Gln Ser Glu Glu Asn Asn Asn Leu Gln Ser  
 20 25 30  
 Gln Val Gln Lys Leu Thr Glu Glu Asn Thr Thr Leu Arg Glu Gln Val  
 35 40 45  
 Glu Pro Thr Pro Glu Asp Glu Asp Asp Asp Ile Glu Leu Arg Gly Ala  
 50 55 60

Ala Ala Ala Ala Ala Pro Pro Pro Pro Ile Glu Glu Glu Cys Pro Glu  
 65 70 75 80  
 Asp Leu Pro Glu Lys Phe Asp Gly Asn Pro Asp Met Leu Ala Pro Phe  
 85 90 95  
 Met Ala Gln Cys Gln Ile Phe Met Glu Lys Ser Thr Arg Asp Phe Ser  
 100 105 110  
 Val Asp Arg Val Arg Val Cys Phe Val Thr Ser Met Met Thr Gly Arg  
 115 120 125  
 Ala Ala Arg Trp Ala Ser Ala Lys Leu Glu Arg Ser His Tyr Leu Met  
 130 135 140  
 His Asn Tyr Pro Ala Phe Met Met Glu Met Lys His Val Phe Glu Asp  
 145 150 155 160  
 Pro Gln Arg Arg Glu Val Ala Lys Arg Lys Ile Arg Arg Leu Arg Gln  
 165 170 175  
 Gly Met Gly Ser Val Ile Asp Tyr Ser Asn Ala Phe Gln Met Ile Ala  
 180 185 190  
 Gln Asp Leu Asp Trp Asn Glu Pro Ala Leu Ile Asp Gln Tyr His Glu  
 195 200 205  
 Gly Leu Ser Asp His Ile Gln Glu Glu Leu Ser His Leu Glu Val Ala  
 210 215 220  
 Lys Ser Leu Ser Ala Leu Ile Gly Gln Cys Ile His Ile Glu Arg Arg  
 225 230 235 240  
 Leu Ala Arg Ala Ala Ala Ala Arg Lys Pro Arg Ser Pro Pro Arg Ala  
 245 250 255  
 Leu Val Leu Pro His Ile Ala Ser His His Gln Val Asp Pro Thr Glu  
 260 265 270  
 Pro Val Gly Gly Ala Arg Met Arg Leu Thr Gln Glu Glu Lys Glu Arg  
 275 280 285  
 Arg Arg Lys Leu Asn Leu Cys Leu Tyr Cys Gly Thr Gly Gly His Tyr  
 290 295 300  
 Ala Asp Asn Cys Pro Ala Lys Ala Ser Lys Ser Ser Pro Ala Gly Asn  
 305 310 315 320  
 Ser Pro Ala Pro Leu  
 325

<210> 1817

<211> 357

<212> PRT

<213> Homo sapiens

<400> 1817

Met Leu Gln Ile His Leu Pro Gly Arg His Thr Leu Phe Val Arg Ala  
 1 5 10 15  
 Met Ile Asp Ser Gly Ala Ser Gly Asn Phe Ile Asp His Glu Tyr Val  
 20 25 30  
 Ala Gln Asn Gly Ile Pro Leu Arg Ile Lys Asp Trp Pro Ile Leu Val  
 35 40 45  
 Glu Ala Ile Asp Gly Arg Pro Ile Ala Ser Gly Pro Val Val His Glu  
 50 55 60  
 Thr His Asp Leu Ile Val Asp Leu Gly Asp His Arg Glu Val Leu Ser  
 65 70 75 80  
 Phe Asp Val Thr Gln Ser Pro Phe Phe Pro Val Val Leu Gly Val Arg  
 85 90 95

Trp Leu Ser Thr His Asp Pro Asn Ile Thr Trp Ser Thr Arg Ser Ile  
 100 105 110  
 Val Phe Asp Ser Glu Tyr Cys Arg Tyr His Cys Arg Met Tyr Ser Pro  
 115 120 125  
 Ile Pro Pro Ser Leu Pro Pro Pro Ala Pro Gln Pro Pro Leu Tyr Tyr  
 130 135 140  
 Pro Val Asp Gly Tyr Arg Val Tyr Gln Pro Val Arg Tyr Tyr Tyr Val  
 145 150 155 160  
 Gln Asn Val Tyr Thr Pro Val Asp Glu His Val Tyr Pro Asp His Arg  
 165 170 175  
 Leu Val Asp Pro His Ile Glu Met Ile Pro Gly Ala His Ser Ile Pro  
 180 185 190  
 Ser Gly His Val Tyr Ser Leu Ser Glu Pro Glu Met Ala Ala Leu Arg  
 195 200 205  
 Asp Phe Val Ala Arg Asn Val Lys Asp Gly Leu Ile Thr Pro Thr Ile  
 210 215 220  
 Ala Pro Asn Gly Ala Gln Val Leu Gln Val Lys Arg Gly Trp Lys Leu  
 225 230 235 240  
 Gln Val Ser Tyr Asp Cys Arg Ala Pro Asn Asn Phe Thr Ile Gln Asn  
 245 250 255  
 Gln Tyr Pro Arg Leu Ser Ile Pro Asn Leu Glu Asp Gln Ala His Leu  
 260 265 270  
 Ala Thr Tyr Thr Glu Phe Val Pro Gln Ile Pro Gly Tyr Gln Thr Tyr  
 275 280 285  
 Pro Thr Tyr Ala Ala Tyr Pro Thr Tyr Pro Val Gly Phe Ala Trp Tyr  
 290 295 300  
 Pro Val Gly Arg Asp Gly Gln Gly Arg Ser Leu Tyr Val Pro Val Met  
 305 310 315 320  
 Ile Thr Trp Asn Pro His Trp Tyr Arg Gln Pro Pro Val Pro Gln Tyr  
 325 330 335  
 Pro Pro Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro  
 340 345 350  
 Ser Tyr Ser Thr Leu  
 355

<210> 1818  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 1818  
 Met Ser Thr Gly Asn Thr Val Cys Ser Arg Tyr His Phe Tyr Val Arg  
 1 5 10 15  
 Val Asn Gln Ala Val Ile Trp Val Asp Val Leu Ile Tyr Trp Ser Val  
 20 25 30  
 His Ile Leu Asp Ile Val Ile Pro His Trp Leu Val Asn Ser Val Ser  
 35 40 45  
 Ile Tyr Trp Ile Ile Glu Trp Arg Leu Trp Cys Trp Trp Trp Glu Arg  
 50 55 60  
 Trp Trp Tyr Trp Arg Ile His Pro Ala Val Val Ala Ala Val Phe Arg  
 65 70 75 80  
 Ile Lys Asp Asp Arg Ser Ser Ala Pro Cys Asp Ile Gly Ile Met Cys  
 85 90 95

Ala Gln Pro Ala Asn Pro  
100

<210> 1819  
<211> 831  
<212> PRT  
<213> Homo sapiens

<400> 1819  
Met Glu Arg Ala Gly Ala Thr Ser Arg Gly Gly Gln Ala Pro Gly Phe  
1 5 10 15  
Leu Leu Arg Leu His Thr Glu Gly Arg Ala Glu Ala Ala Arg Val Gln  
20 25 30  
Glu Gln Asp Leu Arg Gln Trp Gly Leu Thr Gly Ile His Leu Arg Ser  
35 40 45  
Tyr Gln Leu Glu Gly Val Asn Trp Leu Ala Gln Arg Phe His Cys Gln  
50 55 60  
Asn Gly Cys Ile Leu Gly Asp Glu Met Gly Leu Gly Lys Thr Cys Gln  
65 70 75 80  
Thr Ile Ala Leu Phe Ile Tyr Leu Ala Gly Arg Leu Asn Asp Glu Gly  
85 90 95  
Pro Phe Leu Ile Leu Cys Pro Leu Ser Val Leu Ser Asn Trp Lys Glu  
100 105 110  
Glu Met Gln Arg Phe Ala Pro Gly Leu Ser Cys Val Thr Tyr Ala Gly  
115 120 125  
Asp Lys Glu Glu Arg Ala Cys Leu Gln Gln Asp Leu Lys Gln Glu Ser  
130 135 140  
Arg Phe His Val Leu Leu Thr Thr Tyr Glu Ile Cys Leu Lys Asp Ala  
145 150 155 160  
Ser Phe Leu Lys Ser Phe Pro Trp Ser Val Leu Val Val Asp Glu Ala  
165 170 175  
His Arg Leu Lys Asn Gln Ser Ser Leu Leu His Lys Thr Leu Ser Glu  
180 185 190  
Phe Ser Val Val Phe Ser Leu Leu Leu Thr Gly Thr Pro Ile Gln Asn  
195 200 205  
Ser Leu Gln Glu Leu Tyr Ser Leu Leu Ser Phe Val Glu Pro Asp Leu  
210 215 220  
Phe Ser Lys Glu Glu Val Gly Asp Phe Ile Gln Arg Tyr Gln Asp Ile  
225 230 235 240  
Glu Lys Glu Ser Glu Ser Ala Ser Glu Leu His Lys Leu Leu Gln Pro  
245 250 255  
Phe Leu Leu Arg Arg Val Lys Ala Glu Val Ala Thr Glu Leu Pro Lys  
260 265 270  
Lys Thr Glu Val Val Ile Tyr His Gly Met Ser Ala Leu Gln Lys Lys  
275 280 285  
Tyr Tyr Lys Ala Ile Leu Met Lys Asp Leu Asp Ala Phe Glu Asn Glu  
290 295 300  
Thr Ala Lys Lys Val Lys Leu Gln Asn Ile Leu Ser Gln Leu Arg Lys  
305 310 315 320  
Cys Val Asp His Pro Tyr Leu Phe Asp Gly Val Glu Pro Glu Pro Phe  
325 330 335  
Glu Val Gly Asp His Leu Thr Glu Ala Ser Gly Lys Leu His Leu Leu  
340 345 350

Asp Lys Leu Leu Ala Phe Leu Tyr Ser Gly Gly His Arg Val Leu Leu  
 355 360 365  
 Phe Ser Gln Met Thr Gln Met Leu Asp Ile Leu Gln Asp Tyr Met Asp  
 370 375 380  
 Tyr Arg Gly Tyr Ser Tyr Glu Arg Val Asp Gly Ser Val Arg Gly Glu  
 385 390 395 400  
 Glu Arg His Leu Ala Ile Lys Asn Phe Gly Gln Gln Pro Ile Phe Val  
 405 410 415  
 Phe Leu Leu Ser Thr Arg Ala Gly Gly Val Gly Met Asn Leu Thr Ala  
 420 425 430  
 Ala Asp Thr Val Ile Phe Val Asp Ser Asp Phe Asn Pro Gln Asn Asp  
 435 440 445  
 Leu Gln Ala Ala Ala Arg Ala His Arg Ile Gly Gln Asn Lys Ser Val  
 450 455 460  
 Lys Val Ile Arg Leu Ile Gly Arg Asp Thr Val Glu Glu Ile Val Tyr  
 465 470 475 480  
 Arg Lys Ala Ala Ser Lys Leu Gln Leu Thr Asn Met Ile Ile Glu Gly  
 485 490 495  
 Gly His Phe Thr Leu Gly Ala Gln Lys Pro Ala Ala Asp Ala Asp Leu  
 500 505 510  
 Gln Leu Ser Glu Ile Leu Lys Phe Gly Leu Asp Lys Leu Leu Ala Ser  
 515 520 525  
 Glu Gly Ser Thr Met Asp Glu Ile Asp Leu Glu Ser Ile Leu Gly Glu  
 530 535 540  
 Thr Lys Asp Gly Gln Trp Val Ser Asp Ala Leu Pro Ala Ala Glu Gly  
 545 550 555 560  
 Gly Ser Arg Asp Gln Glu Glu Gly Lys Asn His Met Tyr Leu Phe Glu  
 565 570 575  
 Gly Lys Asp Tyr Ser Lys Glu Pro Ser Lys Glu Asp Arg Lys Ser Phe  
 580 585 590  
 Glu Gln Leu Val Asn Leu Gln Lys Thr Leu Leu Glu Lys Ala Ser Gln  
 595 600 605  
 Glu Gly Arg Ser Leu Arg Asn Lys Gly Ser Val Leu Ile Pro Gly Leu  
 610 615 620  
 Val Glu Gly Ser Thr Lys Arg Lys Arg Val Leu Ser Pro Glu Glu Leu  
 625 630 635 640  
 Glu Asp Arg Gln Lys Lys Arg Gln Glu Ala Ala Ala Lys Arg Arg Arg  
 645 650 655  
 Leu Ile Glu Glu Lys Lys Arg Gln Lys Glu Glu Ala Glu His Lys Lys  
 660 665 670  
 Lys Val Ala Trp Trp Glu Ser Asn Asn Tyr Gln Ser Phe Cys Leu Pro  
 675 680 685  
 Ser Glu Glu Ser Glu Pro Glu Asp Leu Glu Asn Gly Glu Glu Ser Ser  
 690 695 700  
 Ala Glu Leu Asp Tyr Gln Asp Pro Asp Ala Thr Ser Leu Lys Tyr Val  
 705 710 715 720  
 Ser Gly Asp Val Thr His Pro Gln Ala Gly Ala Glu Asp Ala Leu Ile  
 725 730 735  
 Val His Cys Val Asp Asp Ser Gly His Trp Gly Arg Gly Gly Leu Phe  
 740 745 750  
 Thr Ala Leu Glu Lys Arg Ser Ala Glu Pro Arg Lys Ile Tyr Glu Leu  
 755 760 765  
 Ala Gly Lys Met Lys Asp Leu Ser Leu Gly Gly Val Leu Leu Phe Pro  
 770 775 780

Val	Asp	Asp	Lys	Glu	Ser	Arg	Asn	Lys	Gly	Gln	Asp	Leu	Leu	Ala	Leu
785					790					795					800
Ile	Val	Ala	Gln	His	Arg	Asp	Arg	Ser	Asn	Val	Leu	Ser	Gly	Ile	Lys
				805					810					815	
Met	Ala	Ala	Leu	Glu	Glu	Gly	Leu	Lys	Lys	Ile	Phe	Leu	Ala	Ala	
			820					825					830		

<210> 1820  
 <211> 212  
 <212> PRT  
 <213> Homo sapiens

<400> 1820

Met	Leu	Asn	Lys	Val	Leu	Ser	Arg	Leu	Gly	Val	Ala	Gly	Gln	Trp	Arg
1				5					10					15	
Phe	Val	Asp	Val	Leu	Gly	Leu	Glu	Glu	Glu	Ser	Leu	Gly	Ser	Val	Pro
			20					25					30		
Ala	Pro	Ala	Cys	Ala	Leu	Leu	Leu	Leu	Phe	Pro	Leu	Thr	Ala	Gln	His
		35					40					45			
Glu	Asn	Phe	Arg	Lys	Lys	Gln	Ile	Glu	Glu	Leu	Lys	Gly	Gln	Glu	Val
	50					55					60				
Ser	Pro	Lys	Val	Tyr	Phe	Met	Lys	Gln	Thr	Ile	Gly	Asn	Ser	Cys	Gly
65					70					75				80	
Thr	Ile	Gly	Leu	Ile	His	Ala	Val	Ala	Asn	Asn	Gln	Asp	Lys	Leu	Gly
			85						90					95	
Phe	Glu	Asp	Gly	Ser	Val	Leu	Lys	Gln	Phe	Leu	Ser	Glu	Thr	Glu	Lys
			100					105					110		
Met	Ser	Pro	Glu	Asp	Arg	Ala	Lys	Cys	Phe	Glu	Lys	Asn	Glu	Ala	Ile
		115					120					125			
Gln	Ala	Ala	His	Asp	Ala	Val	Ala	Gln	Glu	Gly	Gln	Cys	Arg	Val	Asp
		130				135					140				
Asp	Lys	Val	Asn	Phe	His	Phe	Ile	Leu	Phe	Asn	Asn	Val	Asp	Gly	His
145					150					155					160
Leu	Tyr	Glu	Leu	Asp	Gly	Arg	Met	Pro	Phe	Pro	Val	Asn	His	Gly	Ala
				165					170					175	
Ser	Ser	Glu	Asp	Thr	Leu	Leu	Lys	Asp	Ala	Ala	Lys	Val	Cys	Arg	Glu
			180					185					190		
Phe	Thr	Glu	Arg	Glu	Gln	Gly	Glu	Val	Arg	Phe	Ser	Ala	Val	Ala	Leu
		195					200						205		
Cys	Lys	Ala	Ala												
			210												

<210> 1821  
 <211> 323  
 <212> PRT  
 <213> Homo sapiens

<400> 1821

Met	Asp	Ser	Lys	Tyr	Gln	Cys	Val	Lys	Leu	Asn	Asp	Gly	His	Phe	Met
1				5					10					15	
Pro	Val	Leu	Gly	Phe	Gly	Thr	Tyr	Ala	Pro	Ala	Glu	Val	Pro	Lys	Ser
			20					25					30		

Lys Ala Leu Glu Ala Val Lys Leu Ala Ile Glu Ala Gly Tyr His His  
 35 40 45  
 Ile Asp Ser Ala His Val Tyr Asn Asn Glu Glu Gln Val Gly Leu Ala  
 50 55 60  
 Ile Arg Ser Lys Ile Ala Asp Gly Ser Val Lys Arg Glu Asp Ile Phe  
 65 70 75 80  
 Tyr Thr Ser Lys Leu Trp Ser Asn Ser His Arg Pro Glu Leu Val Arg  
 85 90 95  
 Pro Ala Leu Glu Arg Ser Leu Lys Asn Leu Gln Leu Asp Tyr Ala Asp  
 100 105 110  
 Leu Tyr Leu Ile His Phe Pro Val Ser Val Lys Pro Gly Glu Glu Val  
 115 120 125  
 Ile Pro Lys Asp Glu Asn Gly Lys Ile Leu Phe Asp Thr Val Asp Leu  
 130 135 140  
 Cys Ala Thr Trp Glu Ala Met Glu Lys Cys Lys Asp Ala Gly Leu Ala  
 145 150 155 160  
 Lys Ser Ile Gly Val Ser Asn Phe Asn His Arg Leu Leu Glu Met Ile  
 165 170 175  
 Leu Asn Glu Pro Gly Leu Lys Tyr Glu Pro Val Cys Asn Gln Val Glu  
 180 185 190  
 Cys His Pro Tyr Phe Asn Gln Arg Lys Leu Leu Asp Phe Cys Lys Ser  
 195 200 205  
 Lys Asp Ile Val Leu Val Ala Tyr Ser Ala Leu Gly Ser His Arg Glu  
 210 215 220  
 Glu Pro Trp Val Asp Pro Asn Ser Pro Val Leu Leu Glu Asp Pro Val  
 225 230 235 240  
 Leu Cys Ala Leu Ala Lys Lys His Lys Arg Thr Pro Ala Leu Ile Ala  
 245 250 255  
 Leu Arg Tyr Gln Leu Gln Arg Gly Val Val Val Leu Ala Lys Ser Tyr  
 260 265 270  
 Asn Glu Gln Arg Ile Arg Gln Asn Val Gln Val Phe Glu Phe Gln Leu  
 275 280 285  
 Thr Ser Glu Glu Met Lys Ala Ile Asp Gly Leu Asn Arg Asn Val Arg  
 290 295 300  
 Tyr Leu Thr Leu Asp Ile Phe Ala Gly Pro Pro Asn Tyr Pro Ile Ser  
 305 310 315 320  
 Asp Glu Tyr

<210> 1822  
 <211> 141  
 <212> PRT  
 <213> Homo sapiens

<400> 1822  
 Met Gly Phe Gln Lys Phe Ser Pro Phe Leu Ala Leu Ser Ile Leu Val  
 1 5 10 15  
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 20 25 30  
 Glu Ser Ser Pro Ala Asp Pro Ala Thr Leu Ser Glu Asp Glu Ala Arg  
 35 40 45  
 Leu Leu Leu Ala Ala Leu Val Gln Asp Tyr Val Gln Met Lys Ala Ser  
 50 55 60

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<210> 1823
<211> 6188
<212> DNA
<213> Homo sapiens
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<400> 1823						
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ccttcgagag	caagtggaac	ccacccctga	ggatgaggat	gatgacatcg	agctccgcgg	240
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catggaaaag	agcaccaggg	atttctcagt	tgatcgtgtc	cgtgtctgct	tcgtgacaag	420
catgatgacc	ggccgtgctg	cccggtgggc	ctcagcaaa	ctggagcgct	cccactacct	480
gatgcacaa	taccagctt	tcatgatgga	aatgaagcat	gtctttgaag	acctcagag	540
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gcgtataccg	cctaccaggt	aggattcgcc	tggtaaccag	tgggacgaga	cggacaagga	2040
agatcactat	atgtacctgt	gatgatcact	tggaaatcac	actggtaacc	ccagcctccg	2100
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<210> 1824
<211> 866
<212> DNA
<213> Homo sapiens

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<400> 1824
ggcagagcca caggaaggat gaggaagacc aggctctggg ggctgctgtg gatgctcttt 60
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cagaccctgg atgtgaaatg tgactacacg ctagagaagt ttgccagcag ccagaaagct 180
tggcagataa taagggacgg agagatgcc aagacctgg catgcacaga gaggccttca 240
aagaattccc atccagtcca agtggggagg atcactactag aagactacca tgatcatggg 300
ttactgcgcg tccgaatggt caaccttcaa gtggaagatt ctggactgta tcagtgtgtg 360
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aagggttttt cagggacccc tggctccaat gagaattcta cccagaatgt gtataagatt 480
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gctccaccca agtcaactgc cgatgtctcc actcctgact ctgaaatcaa ccttacaaat 600
gtgacagata tcattcagggt tccgggtgtt aacattgtca ttctcctggc tgggtggattc 660
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866

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<210> 1825
<211> 234
<212> PRT
<213> Homo sapiens

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<400> 1825
Met Arg Lys Thr Arg Leu Trp Gly Leu Leu Trp Met Leu Phe Val Ser
1           5           10           15
Glu Leu Arg Ala Ala Thr Lys Leu Thr Glu Glu Lys Tyr Glu Leu Lys
20           25           30
Glu Gly Gln Thr Leu Asp Val Lys Cys Asp Tyr Thr Leu Glu Lys Phe
35           40           45
Ala Ser Ser Gln Lys Ala Trp Gln Ile Ile Arg Asp Gly Glu Met Pro
50           55           60
Lys Thr Leu Ala Cys Thr Glu Arg Pro Ser Lys Asn Ser His Pro Val

```

65					70					75				80
Gln	Val	Gly	Arg	Ile	Ile	Leu	Glu	Asp	Tyr	His	Asp	His	Gly	Leu
				85					90					95
Arg	Val	Arg	Met	Val	Asn	Leu	Gln	Val	Glu	Asp	Ser	Gly	Leu	Tyr
			100					105					110	
Cys	Val	Ile	Tyr	Gln	Pro	Pro	Lys	Glu	Pro	His	Met	Leu	Phe	Asp
		115					120					125		
Ile	Arg	Leu	Val	Val	Thr	Lys	Gly	Phe	Ser	Gly	Thr	Pro	Gly	Ser
	130				135						140			Asn
Glu	Asn	Ser	Thr	Gln	Asn	Val	Tyr	Lys	Ile	Pro	Pro	Thr	Thr	Lys
145					150					155				160
Ala	Leu	Cys	Pro	Leu	Tyr	Thr	Ser	Pro	Arg	Thr	Val	Thr	Gln	Ala
			165						170				175	Pro
Pro	Lys	Ser	Thr	Ala	Asp	Val	Ser	Thr	Pro	Asp	Ser	Glu	Ile	Asn
		180						185				190		Leu
Thr	Asn	Val	Thr	Asp	Ile	Ile	Arg	Val	Pro	Val	Phe	Asn	Ile	Val
	195					200						205		Ile
Leu	Leu	Ala	Gly	Gly	Phe	Leu	Ser	Lys	Ser	Leu	Val	Phe	Ser	Val
	210					215					220			Leu
Phe	Ala	Val	Thr	Leu	Arg	Ser	Phe	Val	Pro					
225					230									

<210> 1826  
 <211> 192  
 <212> DNA  
 <213> Homo sapiens

<400> 1826  
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 agaagcacct ggaaccccca cagaagattc tggactcccc agacgggacc aggagaggga 180  
 cggcatgagc ga 192

<210> 1827  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<400> 1827  
 cacacacaaa cacagaacca cacagccagt cccaggagcc cagtaatgga gagccccaaa 60  
 aagaagaacc agcagctgaa agtcgggatc ctacacctgg gcagcagaca gaagaagatc 120  
 aggatacagc tgagatccca gtgcgcgaca tggaaggatg tctgcaagag ctgcatcagt 180  
 caaacaccgg ggataaatct ggatttgggt tccggcgtca aggtgaagat aatacctaaa 240  
 gaggaacact gtaaaatgcc agaagcaggt gaagagcaac cacaagtt 288

<210> 1828  
 <211> 141  
 <212> DNA  
 <213> Homo sapiens

<400> 1828  
 cacacacaaa cacagaacca cacagccagt cccaggagcc cagtaatgga gagccccaaa 60  
 aagaagaacc agcagctgaa agtcgggatc ctacacctgg gcagcagaca gaagaagatc 120

aggatacagc tgagatccca g

141

<210> 1829

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1829

gtgctgggaa gggaaatgcg cgacatggaa ggtgatctgc aagagctgca tcagtcaaac 60  
accggggata aatctggatt tgggttccgg cgtcaagggtg aagataatac c 111

<210> 1830

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1830

Met	Arg	Cys	His	Ala	His	Gly	Pro	Ser	Cys	Leu	Val	Thr	Ala	Ile	Thr
1				5					10					15	
Arg	Glu	Glu	Gly	Gly	Pro	Arg	Ser	Gly	Gly	Ala	Gln	Ala	Lys	Leu	Gly
			20					25					30		
Cys	Cys	Trp	Gly	Tyr	Pro	Ser	Pro	Arg	Ser	Thr	Trp	Asn	Pro	Asp	Arg
		35					40					45			
Arg	Phe	Trp	Thr	Pro	Gln	Thr	Gly	Pro	Gly	Glu	Gly	Arg	His	Glu	Arg
	50					55					60				

<210> 1831

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1831

His	Thr	Gln	Thr	Gln	Asn	His	Thr	Ala	Ser	Pro	Arg	Ser	Pro	Val	Met
1				5					10					15	
Glu	Ser	Pro	Lys	Lys	Lys	Asn	Gln	Gln	Leu	Lys	Val	Gly	Ile	Leu	His
			20					25					30		
Leu	Gly	Ser	Arg	Gln	Lys	Lys	Ile	Arg	Ile	Gln	Leu	Arg	Ser	Gln	Cys
		35					40					45			
Ala	Thr	Trp	Lys	Val	Ile	Cys	Lys	Ser	Cys	Ile	Ser	Gln	Thr	Pro	Gly
		50				55					60				
Ile	Asn	Leu	Asp	Leu	Gly	Ser	Gly	Val	Lys	Val	Lys	Ile	Ile	Pro	Lys
65					70					75				80	
Glu	Glu	His	Cys	Lys	Met	Pro	Glu	Ala	Gly	Glu	Glu	Gln	Pro	Gln	Val
				85					90					95	

<210> 1832

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1832

His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met

```

      1             5             10             15
Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His
      20             25             30
Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln
      35             40             45

```

<210> 1833  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

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<400> 1833
Val Leu Gly Arg Glu Met Arg Asp Met Glu Gly Asp Leu Gln Glu Leu
  1             5             10             15
His Gln Ser Asn Thr Gly Asp Lys Ser Gly Phe Gly Phe Arg Arg Gln
      20             25             30
Gly Glu Asp Asn Thr
      35

```

<210> 1834  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1834
Met Ala Lys Gly Asp Pro Lys Lys Pro Lys Gly Lys Thr Ser Ala Tyr
  1             5             10             15
Ala Phe Phe Val
      20

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<210> 1835  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

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<400> 1835
Pro Lys Gly Lys Thr Ser Ala Tyr Ala Phe Phe Val Gln Thr Cys Arg
  1             5             10             15
Glu Glu His Lys
      20

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<210> 1836  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

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<400> 1836
Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys Asn Pro
  1             5             10             15
Glu Val Pro Val

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20

<210> 1837  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1837  
 Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala Glu  
 1 5 10 15  
 Phe Ser Lys Lys  
 20

<210> 1838  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1838  
 Glu Val Pro Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg  
 1 5 10 15  
 Trp Lys Thr Val  
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<210> 1839  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1839  
 Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Val Ser Gly Lys Glu  
 1 5 10 15  
 Lys Ser Lys Phe  
 20

<210> 1840  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1840  
 Trp Lys Thr Val Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala  
 1 5 10 15  
 Lys Ala Asp Lys  
 20

<210> 1841  
 <211> 20  
 <212> PRT

<213> Homo sapiens

<400> 1841

Lys Ser Lys Phe Asp Glu Met Ala Lys Ala Asp Lys Val Arg Tyr Asp  
 1 5 10 15  
 Arg Glu Met Lys  
 20

<210> 1842

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1842

Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro  
 1 5 10 15  
 Ala Lys Gly Gly  
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<210> 1843

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1843

Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys  
 1 5 10 15  
 Asp Pro Asn Ala  
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<210> 1844

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1844

Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro  
 1 5 10 15  
 Pro Ser Gly Phe  
 20

<210> 1845

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1845

Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys  
 1 5 10 15  
 Ser Glu Phe Arg

20

<210> 1846  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1846  
 Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys  
 1 5 10 15  
 Ser Thr Asn Pro  
 20

<210> 1847  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1847  
 Ser Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile  
 1 5 10 15  
 Gly Asp Val Ala  
 20

<210> 1848  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1848  
 Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly  
 1 5 10 15  
 Glu Met Trp Asn  
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<210> 1849  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1849  
 Gly Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Leu Asn Asp  
 1 5 10 15  
 Ser Glu Lys Gln  
 20

<210> 1850  
 <211> 20  
 <212> PRT



<213> Homo sapiens

<400> 1850

Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr  
 1 5 10 15  
 Lys Ala Ala Lys  
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<210> 1851

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1851

Ser Glu Lys Gln Pro Tyr Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys  
 1 5 10 15  
 Tyr Glu Lys Asp  
 20

<210> 1852

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1852

Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr  
 1 5 10 15  
 Lys Ser Lys Gly  
 20

<210> 1853

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1853

Tyr Glu Lys Asp Val Ala Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly  
 1 5 10 15  
 Ala Lys Gly Pro  
 20

<210> 1854

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1854

Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala  
 1 5 10 15  
 Arg Lys Lys Val

20

<210> 1855  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1855  
 Ala Lys Gly Pro Ala Lys Val Ala Arg Lys Lys Val Glu Glu Glu Asp  
 1 5 10 15  
 Glu Glu Glu Glu  
 20

<210> 1856  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1856  
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 1 5 10 15  
 Glu Glu Glu Glu  
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<210> 1857  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1857  
 agtgcgaatt cgggctgcgt gcaggagg 28

<210> 1858  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1858  
 ggactcgagc tactgcaagt ctggtgtgga tg 32

<210> 1859  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 1859

agatgaattc acgcgtccgc gccgcgcggc gca

33

&lt;210&gt; 1860

&lt;211&gt; 31

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 1860

agttctcgag tcacctccct gggccccttt g

31

&lt;210&gt; 1861

&lt;211&gt; 945

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1861

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accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgacagag tccaacgcgt ggtcgggagc gtcgcggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcacatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
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gccccccatc gatgtcctct ggatcaaagg ggcccaggga ggtga 945

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&lt;210&gt; 1862

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1862

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atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
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accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgacagag tccaacgcgt ggtcgggagc gtcgcggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcacatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaaacgt gacattggcc gagggacccc cggccgaatt cgggctgcgt 420
gcaggaggaa cgctgggcag ggccggcgcg ggtcgggggg cggccgaggg gcccgggccg 480

```

```

agcggcggcg cgcagggcgg cagcatccac tcgggcccga tcgccgcggt gcacaacgtg 540
ccgctgagcg tgctcatccg gccgtgccg tccgtgttg accccgcca ggtgcagagc 600
ctcgtggaca cgatccggga ggaccagac agcgtgcccc ccacgatgt cctctggatc 660
aaagggggccc agggaggtga ctacttctac tcctttgggg gctgccaccg ctacgcggcc 720
taccagcaac tgcagcgaga gaccatcccc gccaaagcttg tccagtccac tctctcagac 780
ctaagggtgt acctgggagc atccacacca gacttgcaat ag 822

```

&lt;210&gt; 1863

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1863

```

Met His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
 1          5          10          15
Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20          25          30
Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35          40          45
Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50          55          60
Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65          70          75          80
Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85          90          95
Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100          105          110
Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
      115          120          125
Leu Ala Glu Gly Pro Pro Ala Glu Phe Thr Arg Pro Arg Arg Ala Ala
      130          135          140
Gln Gly Arg Arg Glu Ala Pro Pro Gly Gly Glu Pro Glu Pro Arg Ala
      145          150          155          160
Ser Leu Ala Ala Pro Gly Glu Arg Ser Arg Ser Arg Ala Gly Asp Arg
      165          170          175
Gly Val Glu Ala Gly Pro Arg Arg Gly Arg Gly Arg Asn Ala Arg Cys
      180          185          190
Pro Gly Thr Gly Pro Asn Pro Pro Ala Ala Arg Asn Gly Met Ala Arg
      195          200          205
Pro Glu Leu Arg Pro Gly Gly Gly Gly Glu Ser Arg Gly Gly Gly Asp
      210          215          220
Asp Gly Ala Ala Cys Arg Arg Asn Ala Gly Gln Gly Arg Arg Gly Ser
      225          230          235          240
Gly Gly Ala Arg Gly Ala Arg Ala Glu Arg Arg Arg Ala Gly Arg Gln
      245          250          255
His Pro Leu Gly Pro His Arg Arg Gly Ala Gln Arg Ala Ala Glu Arg
      260          265          270
Ala His Pro Ala Ala Ala Val Arg Val Gly Pro Arg Gln Gly Ala Glu
      275          280          285
Pro Arg Gly His Asp Pro Gly Gly Pro Arg Gln Arg Ala Pro His Arg
      290          295          300
Cys Pro Leu Asp Gln Arg Gly Pro Gly Arg
      305          310

```

<210> 1864  
 <211> 273  
 <212> PRT  
 <213> Homo sapiens

<400> 1864  
 Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu  
 1 5 10 15  
 Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala  
 20 25 30  
 Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala  
 35 40 45  
 Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val  
 50 55 60  
 Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr  
 65 70 75 80  
 Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr  
 85 90 95  
 Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser  
 100 105 110  
 Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr  
 115 120 125  
 Leu Ala Glu Gly Pro Pro Ala Glu Phe Gly Leu Arg Ala Gly Gly Thr  
 130 135 140  
 Leu Gly Arg Ala Gly Ala Gly Arg Gly Ala Pro Glu Gly Pro Gly Pro  
 145 150 155 160  
 Ser Gly Gly Ala Gln Gly Gly Ser Ile His Ser Gly Arg Ile Ala Ala  
 165 170 175  
 Val His Asn Val Pro Leu Ser Val Leu Ile Arg Pro Leu Pro Ser Val  
 180 185 190  
 Leu Asp Pro Ala Lys Val Gln Ser Leu Val Asp Thr Ile Arg Glu Asp  
 195 200 205  
 Pro Asp Ser Val Pro Pro Ile Asp Val Leu Trp Ile Lys Gly Ala Gln  
 210 215 220  
 Gly Gly Asp Tyr Phe Tyr Ser Phe Gly Gly Cys His Arg Tyr Ala Ala  
 225 230 235 240  
 Tyr Gln Gln Leu Gln Arg Glu Thr Ile Pro Ala Lys Leu Val Gln Ser  
 245 250 255  
 Thr Leu Ser Asp Leu Arg Val Tyr Leu Gly Ala Ser Thr Pro Asp Leu  
 260 265 270  
 Gln

<210> 1865  
 <211> 790  
 <212> DNA  
 <213> Homo sapiens

<400> 1865  
 ctgattccgc gactccttgg ccgccgctgc gcatggaaaag ctctgccaaag atggagagcg 60  
 gcggcgccgg ccagcagccc cagccgcagc cccagcagcc cttctgtccg cccgcagcct 120  
 gtttctttgc caccggccgca gccgcggcgg ccgcagccgc cgcagcggca gcgcagagcg 180

```
<210> 1866
<211> 784
<212> DNA
<213> Homo sapiens
```

```
<210> 1867
<211> 789
<212> DNA
<213> Homo sapiens
```

<400>	1867						
ttccgcgact	ccttggccgc	cgctgcgcat	ggaaagctct	gccaaagatgg	agagcggcgg	60	
cgccgggccag	cagccccagc	cgcagcccca	gcagcccttc	ctgccgcccg	cagcctgttt	120	
ctttgccacg	gccgcagccg	cggcgggccgc	agccgcgcga	gcggcagcgc	agagcgcgca	180	
gcagcagcag	cagcagcagc	agcagcagca	gcagcaggcg	ccgcagctga	gaccggcggc	240	
cgacgggccag	ccctcagggg	gcggtcacaa	gtcagcgccc	aagcaagtca	agcgacagcg	300	
ctcgtcttcg	cccgaactga	tgcgctgcaa	acgccggctc	aacttcagcg	gctttggcta	360	
cagcctgccg	cagcagcagc	cggcgcgcgt	ggcgcgccgc	aacgagcgcg	agcgcaaccg	420	
cgtcaagttg	gtcaacctgg	gctttgccac	ccttcgggag	cacgtcccca	acggcgcggc	480	
caacaagaag	atgagtaagg	tggagacact	gcgctcggcg	gtcaggtaca	tccgcgcgct	540	
gcagcagctg	ctggacgagc	atgacgcggt	gagcgccgcc	ttccaggcag	gcgtcctgtc	600	
gccaccatc	tcccccaact	actccaacga	cttgaactcc	atggccggct	cgcgggtctc	660	
atcctactcg	tccgacgagg	gctcttacga	cccgtcagc	cccaggagc	aggagcttct	720	
cgacttcacc	aactggttct	gaggggctcg	gcctggtcag	gccctggtgc	gaatggactt	780	
tggaagcag						789	

<210> 1868  
 <211> 785  
 <212> DNA  
 <213> Homo sapiens

<400> 1868  
 tctgattccg cgactccttg gccgccgctg cgcatggaaa gctctgccaa gatggagagc 60  
 ggcgggcgccg gccagcagcc ccagccgcag ccccagcagc ccttcctgcc gcccgagcc 120  
 tgtttctttg ccacggccgc agccgcggcg gccgcagccg ccgcagcggc agcgagagc 180  
 ggcagcagc agcagcagca gcagcagcag caggcgccgc agctgagacc ggcgggccgac 240  
 ggccagccct cagggggcgg tcacaagtca gcgccaagc aagtcaagcg acagcgctcg 300  
 tcttcgcccg aactgatgcg ctgcaaacgc cggtcaact tcagcggctt tggctacagc 360  
 ctgccgcagc agcagccggc cgccgtggcg cgccgcaacg agcgcgagcg caaccgcgtc 420  
 aagttgggtca acctgggctt tgccaccctt cgggagcacg tccccaacgg cgcggccaac 480  
 aagaagatga gtaaggtgga gacactgcgc tcggcggtcg agtacatccg cgcgctgcag 540  
 cagctgctgg acgagcatga cgcggtgagc gccgccttc aggcaggcgt cctgtcgccc 600  
 accatctccc ccaactactc caacgacttg aactccatgg ccggctcgcc ggtctcatcc 660  
 tactcgtcgg acgagggctc ttacgaccgc ctcagccccg aggagcagga gcttctcgac 720  
 ttcaccaact ggttctgagg ggctcggcct ggtcaggccc tggtgcaat ggactttgga 780  
 agcag 785

<210> 1869  
 <211> 236  
 <212> PRT  
 <213> Homo sapiens

<400> 1869  
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro  
 1 5 10 15  
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe  
 20 25 30  
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln  
 35 40 45  
 Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro  
 50 55 60  
 Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys  
 65 70 75 80  
 Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu  
 85 90 95  
 Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu  
 100 105 110  
 Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg  
 115 120 125  
 Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His  
 130 135 140  
 Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu  
 145 150 155 160  
 Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu  
 165 170 175  
 His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr  
 180 185 190  
 Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro  
 195 200 205  
 Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro

210	215	220
Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe		
225	230	235

<210> 1870  
 <211> 236  
 <212> PRT  
 <213> Homo sapiens

<400> 1870  
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro  
 1 5 10 15  
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe  
 20 25 30  
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln  
 35 40 45  
 Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro  
 50 55 60  
 Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys  
 65 70 75 80  
 Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu  
 85 90 95  
 Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu  
 100 105 110  
 Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg  
 115 120 125  
 Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His  
 130 135 140  
 Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu  
 145 150 155 160  
 Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu  
 165 170 175  
 His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr  
 180 185 190  
 Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro  
 195 200 205  
 Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro  
 210 215 220  
 Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe  
 225 230 235

<210> 1871  
 <211> 237  
 <212> PRT  
 <213> Homo sapiens

<400> 1871  
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro  
 1 5 10 15  
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe  
 20 25 30  
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln



```

      35              40              45
Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala
  50              55              60
Pro Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His
  65              70              75              80
Lys Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu
      85              90              95
Leu Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser
      100              105              110
Leu Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu
      115              120              125
Arg Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu
      130              135              140
His Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr
      145              150              155              160
Leu Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp
      165              170              175
Glu His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro
      180              185              190
Thr Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser
      195              200              205
Pro Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser
      210              215              220
Pro Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
      225              230              235

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<210> 1872  
 <211> 234  
 <212> PRT  
 <213> Homo sapiens

```

<400> 1872
Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
  1              5              10              15
Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
      20              25              30
Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
      35              40              45
Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro Gln Leu
      50              55              60
Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys Ser Ala
      65              70              75              80
Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu Met Arg
      85              90              95
Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu Pro Gln
      100              105              110
Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg Asn Arg
      115              120              125
Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His Val Pro
      130              135              140
Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu Arg Ser
      145              150              155              160
Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu His Asp

```

				165						170					175				
Ala	Val	Ser	Ala	Ala	Phe	Gln	Ala	Gly	Val	Leu	Ser	Pro	Thr	Ile	Ser				
			180					185						190					
Pro	Asn	Tyr	Ser	Asn	Asp	Leu	Asn	Ser	Met	Ala	Gly	Ser	Pro	Val	Ser				
		195					200					205							
Ser	Tyr	Ser	Ser	Asp	Glu	Gly	Ser	Tyr	Asp	Pro	Leu	Ser	Pro	Glu	Glu				
	210					215					220								
Gln	Glu	Leu	Leu	Asp	Phe	Thr	Asn	Trp	Phe										
225						230													

&lt;210&gt; 1873

&lt;211&gt; 1353

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1873

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gcagcatgta acctggcctg catccaggaa atagaggact tcggatcctt ctaaccctac 60
cacccaactg gccccagtac attcattctc tcaggaaaaa aaacaaggtc cccacagcaa 120
agaaaaggaa taggatcaag agatacgtgg ctgctggcag agcaagcatg aattcgatga 180
cttcagcagt tccgggtggcc aattctgtgt tgggtgtggc accccacaat ggttatcctg 240
tgaccccgag aattatgtct cacgtgcccc tgtatccaaa cagccagccg caagtccacc 300
tagttcctgg gaaccacact agtttggtgt cgaatgtgaa tgggcagcct gtgcagaaag 360
ctctgaaaga aggcaaaacc ttgggggcca tccagatcat cattggcctg gctcacatcg 420
gcctcggtc catcatggcg acggttctcg taggggaata cctgtctatt tcattctacg 480
gaggetttcc cttctgggga ggcttgtggt ttatcatttc agaatctctc tccgtggcag 540
cagaaaatca gccatattct tattgcctgc tgtctggcag tttgggcttg aacatcgta 600
gtgcaatctg ctctgcagtt ggagtcatac tcttcacac agatctaagt attccccacc 660
catatgccta ccccgactat tatecttac cctgggggtgt gaaccctgga atggcgattt 720
ctggcggtgt gctgggtctt tgectcctgg agtttggcat cgcattgcga tcttcccact 780
ttggctgcca gttgggtctg tgtcaatcaa gcaatgtgag tgtcatctat ccaaacatct 840
atgcagcaaa cccagtgatc accccagaac cggtgacctc accaccaagt tattccagt 900
agatccaagc aaataagtaa ggctacagat tctggaagca tctttcactg ggacccaaaag 960
aagtcctcct ccttttctgg gcttccataa cccaggtcgt tctgttctg acagctgagg 1020
aaagctctct cccactgttt gtactctcac cttcattctt caattcagtc taggaaacca 1080
tgtgttttct ctatcaagaa gaagacagag attttaaaca gatgttaacc aagagggact 1140
ccctagggca catgcatcag cacatatgtg ggcattccag ctctggggcc ttggcacaca 1200
cacattcgtg tgctctgctg catgtgagct tgtgggttaa aggaacaaat atttagacat 1260
tcaatcttca ctctttcaat tgtgcattca tttaataaat agatactgag cattcaaaaa 1320
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1353

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&lt;210&gt; 1874

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1874

Met	Asn	Ser	Met	Thr	Ser	Ala	Val	Pro	Val	Ala	Asn	Ser	Val	Leu	Val				
1				5				10					15						
Val	Ala	Pro	His	Asn	Gly	Tyr	Pro	Val	Thr	Pro	Gly	Ile	Met	Ser	His				
			20					25					30						
Val	Pro	Leu	Tyr	Pro	Asn	Ser	Gln	Pro	Gln	Val	His	Leu	Val	Pro	Gly				
		35					40					45							
Asn	Pro	Pro	Ser	Leu	Val	Ser	Asn	Val	Asn	Gly	Gln	Pro	Val	Gln	Lys				

50	55	60
Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln Ile Ile Ile Gly		
65	70	75
Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr Val Leu Val Gly		80
	85	90
Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro Phe Trp Gly Gly		95
	100	105
Leu Trp Phe Ile Ile Ser Glu Ser Leu Ser Val Ala Ala Glu Asn Gln		110
	115	120
Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly Leu Asn Ile Val		125
	130	135
Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe Ile Thr Asp Leu		140
145	150	155
Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala Trp		160
	165	170
Gly Val Asn Pro Gly Met Ala Ile Ser Gly Val Leu Leu Val Phe Cys		175
	180	185
Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser Ser His Phe Gly Cys Gln		190
	195	200
Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile Tyr Pro Asn Ile		205
	210	215
Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val Thr Ser Pro Pro		220
225	230	235
Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys		240
	245	250

<210> 1875  
 <211> 1155  
 <212> DNA  
 <213> Homo sapiens

<400> 1875  
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60  
 cagggatctg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
 accgttcata tcgggcctac cgcttctctc ggcttgggtg ttgtcgacaa caacggcaac 180  
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240  
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300  
 gcgcttaacg ggcatcatcc cggtgacgtc atctcgggtg cctggcaaac caagtcgggc 360  
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgacttca 420  
 gcagttccgg tggccaattc tgtgttggtg gtggcacccc acaatggtta tcctgtgacc 480  
 ccaggaatta tgtctcacgt gccctgtat ccaaacagcc agccgcaagt ccacctagtt 540  
 cctgggaacc cacctagttt ggtgtcgaat gtgaatgggc agcctgtgca gaaagctctg 600  
 aaagaaggca aaaccttggg ggccatccag atcatcattg gcctggctca catcggcctc 660  
 ggtccatca tggcgacggt tctcgtaggg gaatacctgt ctatttcatt ctacggaggc 720  
 tttcccttct ggggaggctt gtggtttatc atttcagaat ctctctccgt ggcagcagaa 780  
 aatcagccat attcttattg cctgctgtct ggcagtttgg gcttgaacat cgtcagtgca 840  
 atctgctctg cagttggagt catactcttc atcacagatc taagtattcc ccaccatatt 900  
 gcctaccccg actattatcc ttacgcctgg ggtgtgaacc ctggaatggc gattttctggc 960  
 gtgctgctgg tctttctgct cctggagttt ggcacgcgat gcgcatcttc ccactttggc 1020  
 tgccagttgg tctgctgtca atcaagcaat gtgagtgtca tctatccaaa catctatgca 1080  
 gcaaaccacg tgatcacccc agaaccggtg acctcaccac caagttattc cagtgagatc 1140  
 caagcaaata agtaa 1155

<210> 1876  
 <211> 384  
 <212> PRT  
 <213> Homo sapiens

<400> 1876

Met	His	His	His	His	His	His	Thr	Ala	Ala	Ser	Asp	Asn	Phe	Gln	Leu
1				5					10					15	
Ser	Gln	Gly	Gly	Gln	Gly	Phe	Ala	Ile	Pro	Ile	Gly	Gln	Ala	Met	Ala
		20						25					30		
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala
	35						40					45			
Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val
	50					55					60				
Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr
65					70					75					80
Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr
				85					90					95	
Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser
		100						105					110		
Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr
	115						120					125			
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Met	Thr	Ser	Ala	Val	Pro	Val
	130					135					140				
Ala	Asn	Ser	Val	Leu	Val	Val	Ala	Pro	His	Asn	Gly	Tyr	Pro	Val	Thr
145					150					155					160
Pro	Gly	Ile	Met	Ser	His	Val	Pro	Leu	Tyr	Pro	Asn	Ser	Gln	Pro	Gln
			165						170					175	
Val	His	Leu	Val	Pro	Gly	Asn	Pro	Pro	Ser	Leu	Val	Ser	Asn	Val	Asn
		180						185					190		
Gly	Gln	Pro	Val	Gln	Lys	Ala	Leu	Lys	Glu	Gly	Lys	Thr	Leu	Gly	Ala
	195						200					205			
Ile	Gln	Ile	Ile	Ile	Gly	Leu	Ala	His	Ile	Gly	Leu	Gly	Ser	Ile	Met
	210					215					220				
Ala	Thr	Val	Leu	Val	Gly	Glu	Tyr	Leu	Ser	Ile	Ser	Phe	Tyr	Gly	Gly
225					230					235					240
Phe	Pro	Phe	Trp	Gly	Gly	Leu	Trp	Phe	Ile	Ile	Ser	Glu	Ser	Leu	Ser
			245						250					255	
Val	Ala	Ala	Glu	Asn	Gln	Pro	Tyr	Ser	Tyr	Cys	Leu	Leu	Ser	Gly	Ser
			260					265					270		
Leu	Gly	Leu	Asn	Ile	Val	Ser	Ala	Ile	Cys	Ser	Ala	Val	Gly	Val	Ile
	275						280					285			
Leu	Phe	Ile	Thr	Asp	Leu	Ser	Ile	Pro	His	Pro	Tyr	Ala	Tyr	Pro	Asp
290					295						300				
Tyr	Tyr	Pro	Tyr	Ala	Trp	Gly	Val	Asn	Pro	Gly	Met	Ala	Ile	Ser	Gly
305					310					315					320
Val	Leu	Leu	Val	Phe	Cys	Leu	Leu	Glu	Phe	Gly	Ile	Ala	Cys	Ala	Ser
			325						330					335	
Ser	His	Phe	Gly	Cys	Gln	Leu	Val	Cys	Cys	Gln	Ser	Ser	Asn	Val	Ser
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Val	Ile	Tyr	Pro	Asn	Ile	Tyr	Ala	Ala	Asn	Pro	Val	Ile	Thr	Pro	Glu
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Pro	Val	Thr	Ser	Pro	Pro	Ser	Tyr	Ser	Ser	Glu	Ile	Gln	Ala	Asn	Lys
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<210> 1877  
 <211> 861  
 <212> DNA  
 <213> Homo sapiens

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 tttggctgcc agttgggtct ctgtcaatca agcaatgtga gtgtcatcta tccaaacatc 780  
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 gagatccaag caaataagta a 861

<210> 1878  
 <211> 286  
 <212> PRT  
 <213> Homo sapiens

<400> 1878  
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 Ile Ala Gly Gln Ile Lys Leu Met Thr Ser Ala Val Pro Val Ala Asn  
 35 40 45  
 Ser Val Leu Val Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly  
 50 55 60  
 Ile Met Ser His Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His  
 65 70 75 80  
 Leu Val Pro Gly Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln  
 85 90 95  
 Pro Val Gln Lys Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln  
 100 105 110  
 Ile Ile Ile Gly Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr  
 115 120 125  
 Val Leu Val Gly Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro  
 130 135 140  
 Phe Trp Gly Gly Leu Trp Phe Ile Ile Ser Glu Ser Leu Ser Val Ala  
 145 150 155 160  
 Ala Glu Asn Gln Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly  
 165 170 175  
 Leu Asn Ile Val Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe  
 180 185 190

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		210				215					220				
Leu	Val	Phe	Cys	Leu	Leu	Glu	Phe	Gly	Ile	Ala	Cys	Ala	Ser	Ser	His
225					230					235					240
Phe	Gly	Cys	Gln	Leu	Val	Cys	Cys	Gln	Ser	Ser	Asn	Val	Ser	Val	Ile
			245					250					255		
Tyr	Pro	Asn	Ile	Tyr	Ala	Ala	Asn	Pro	Val	Ile	Thr	Pro	Glu	Pro	Val
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<210> 1879  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

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 ggaatg 186

<210> 1880  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

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		20				25					30				
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Leu	Ser	Ile	Pro	His	Pro	Tyr	Ala	Tyr
	35				40			45							
Pro	Asp	Tyr	Tyr	Pro	Tyr	Ala	Trp	Gly	Val	Asn	Pro	Gly	Met		
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<210> 1881  
 <211> 69  
 <212> DNA  
 <213> Homo sapiens

<400> 1881  
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<210> 1882  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

Leu Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala  
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<211> 6799

<213> Homo sapiens

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<210> 1884
<211> 91
<212> PRT
<213> Homo sapiens

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<400> 1884
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           20           25           30
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       35           40           45
Phe Val Ser Thr Gly Ser Thr Glu Leu Ala Ser Asn His Asp Leu Val
       50           55           60
Gln Lys Arg His Glu Asp Trp Ile Cys Ser Lys Gln Ile Val Gln Arg
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<210> 1885
<211> 56
<212> PRT
<213> Homo sapiens

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<400> 1885
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       20           25           30
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<210> 1886  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1886  
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 20                      25                      30  
 Pro Arg Pro Arg Lys Ala Ala Pro Ala Ser Glu Val Ser Gln Lys Asp  
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 Thr His Leu Trp Thr Arg Cys Pro  
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<210> 1887  
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 <212> PRT  
 <213> Homo sapiens

<400> 1887  
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 20                      25                      30  
 Phe Cys Arg His Ser Ser Ser Ser Cys Phe Ser Phe Ser Ser Arg Ile  
 35                      40                      45  
 Ala Cys Gly Phe Leu Pro Gly Ile Pro Arg Asn Ala Val Thr Pro Ala  
 50                      55                      60  
 Ala Gly Thr Gly Ser Pro Asn Asn Arg Glu Gly Thr Trp Ser Pro Arg  
 65                      70                      75                      80  
 Arg Thr Ser Thr Lys Arg Leu Arg Ser Ser Ser Pro Asp Leu Gly Pro  
 85                      90                      95  
 Arg Cys Glu Thr  
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<210> 1888  
 <211> 195  
 <212> PRT  
 <213> Homo sapiens

<400> 1888  
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 20                      25                      30  
 Thr Pro Gly Pro Pro Ala Ser Ser Leu Ser Cys Lys Leu Gly Thr Arg

		35					40					45							
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	50					55					60								
Leu	Ala	Gln	Pro	Pro	Pro	Val	Gly	Ser	Ala	Ser	Asp	Cys	Arg	Pro	His				
65					70					75					80				
Pro	Gly	Pro	Pro	Ile	Gly	Ser	Ala	Arg	Pro	Ala	Leu	Pro	Thr	Pro	Ala				
				85					90					95					
Phe	Pro	Pro	Leu	Asn	Ser	Lys	Ser	Ile	Ser	Leu	His	Gln	Ile	Ile	Glu				
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Ala	Gln	Ser	Pro	Ala	Arg	Leu	Glu	Leu	Leu	Thr	Thr	Cys	Trp	Val	Cys				
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<210> 1889  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 1889																			
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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 <212> DNA  
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 ttgttaaagg ctatgattgt ctttgttctt ctaccacca ccagtgaat ttcacatgc 660  
 ttaaggccat gatcttagca ataccatgt ctacacagat gttcacccaa ccacatccca 720  
 ctcaaacag ctgcttgaa gagcagccct aggtctccac gtactgcagc ctccagagag 780  
 tatctgaggc acatgtcagc aagtcctaag cctgttagca tgctggtgag ccaagcagtt 840  
 tgaaattgag ctggacctca ccaagctgct gtggccatca acctctgtat ttgaatcagc 900  
 ctacaggcct cacacacaat gtgtctgaga gattcatgct gattgttatt gggatcacc 960  
 actggagatc accagtgtgt ggctttcaga gcctcctttc tggctttgga agccatgtga 1020  
 ttccatcttg cccgctcagg ctgaccactt tatttctttt tgttcccctt tgcttcattc 1080  
 aagtcagctc ttctccatcc taccacaatg cagtgccttt ctctctcca gtgcacctgt 1140  
 catatgctct gatcttatct agtcaactcc ttctcatct tgtcccaac accccacaga 1200  
 agtgccttct tctcccaatt catcctcact cagtcagct tagttcaagt cctgcctctt 1260  
 aaataaacct ttttgacac acaaattatc ttaaaactcc tgtttcactt ggttcagtac 1320  
 cacatgggtg aacactcaat ggtaactaa ttctgggtg ttatcctat ctctccaacc 1380  
 agattgtcag ctccctgagg gcaagagcca cagtatattt ccctgtttct tccacagtgc 1440  
 ctaataatac tgtggaacta ggttttaata attttttaat tgatgttgtt atgggcagga 1500  
 tggcaaccag accattgtct cagagcaggt gctggctctt tcctggctac tccatgttg 1560  
 ctagecctctg gtaacctctt acttattatc ttcaggacac tcactacagg gaccagggat 1620  
 gatgcaacat ccttgtcttt ttatgacagg atgtttgtct agcttctcca acaataagaa 1680  
 gcacgtggta aaacacttgc ggatattctg gactgttttt aaaaaatata cagtttaccg 1740  
 aaaatcatat aatcttataa tgaaaaggac tttatagatc agccagtgc caaccttttc 1800  
 ccaaccatac aaaaattcct tttccgaag gaaaagggt ttctcaataa gcctcagctt 1860  
 tctaagatct aacaagatag ccaccgagat ccttatcgaa actcatttta ggcaaatatg 1920  
 agttttattg tccgtttact tgtttcagag tttgtattgt gattatcaat taccacacca 1980  
 tctcccatga agaaagggaa cggatgaagta ctaagcgcta gaggaagcag ccaagtcggt 2040  
 tagtggaagc atgattgggtg ccaggttagc ctctgcagga tgtggaacc tccttccagg 2100  
 ggaggttcag tgaattgtgt aggagaggtt gtctgtggcc agaatttaaa cctatactca 2160  
 ctttcccaaa ttgaatcact gctcacactg ctgatgattt agagtgtgt ccggtggaga 2220  
 toccacccga acgtcttate taatcatgaa actccctagt tcttcatgt aacttccctg 2280  
 aaaaatctaa gtgtttcata aatttgagag tctgtgacct acttaccttg catctcacag 2340  
 gtagacagta tataactaac aaccaaagac tacatttgt cactgacaca cacgttataa 2400  
 tcatttatca tatatatata tacatgcata cactctcaaa gcaataaatt tttcacttca 2460  
 aaacagtatt gacttgtata ccttgtaatt tgaaatatct tctttgttaa aatagaatgg 2520  
 tatcaataaa tagaccatta atcag 2545

<210> 1901  
 <211> 149  
 <212> PRT

<213> Homo sapiens

<400> 1901

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Met Ala Ser Ser Asp Ile Gln Val Lys Glu Leu Glu Lys Arg Ala Ser
 1           5           10           15
Gly Gln Ala Phe Glu Leu Ile Leu Ser Pro Arg Ser Lys Glu Ser Val
           20           25           30
Pro Glu Phe Pro Leu Ser Pro Pro Lys Lys Lys Asp Leu Ser Leu Glu
           35           40           45
Glu Ile Gln Lys Lys Leu Glu Ala Ala Glu Glu Arg Arg Lys Ser His
           50           55           60
Glu Ala Glu Val Leu Lys Gln Leu Ala Glu Lys Arg Glu His Glu Lys
           65           70           75           80
Glu Val Leu Gln Lys Ala Ile Glu Glu Asn Asn Asn Phe Ser Lys Met
           85           90           95
Ala Glu Glu Lys Leu Thr His Lys Met Glu Ala Asn Lys Glu Asn Arg
           100          105          110
Glu Ala Gln Met Ala Ala Lys Leu Glu Arg Leu Arg Glu Lys Asp Lys
           115          120          125
His Ile Glu Glu Val Arg Lys Asn Lys Glu Ser Lys Asp Pro Ala Asp
           130          135          140
Glu Thr Glu Ala Asp
145

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<210> 1902

<211> 276

<212> PRT

<213> Homo sapiens

<400> 1902

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Met Ser Lys Pro Val Asp His Val Lys Arg Pro Met Asn Ala Phe Met
 1           5           10           15
Val Trp Ser Arg Ala Gln Arg Arg Lys Met Ala Gln Glu Asn Pro Lys
           20           25           30
Met His Asn Ser Glu Ile Ser Lys Arg Leu Gly Ala Glu Trp Lys Leu
           35           40           45
Leu Thr Glu Ser Glu Lys Arg Pro Phe Ile Asp Glu Ala Lys Arg Leu
           50           55           60
Arg Ala Met His Met Lys Glu His Pro Asp Tyr Lys Tyr Arg Pro Arg
           65           70           75           80
Arg Lys Pro Lys Thr Leu Leu Lys Lys Asp Lys Phe Ala Phe Pro Val
           85           90           95
Pro Tyr Gly Leu Gly Gly Val Ala Asp Ala Glu His Pro Ala Leu Lys
           100          105          110
Ala Gly Ala Gly Leu His Ala Gly Ala Gly Gly Leu Val Pro Glu
           115          120          125
Ser Leu Leu Ala Asn Pro Glu Lys Ala Ala Ala Ala Ala Ala Ala
           130          135          140
Ala Ala Arg Val Phe Phe Pro Gln Ser Ala Ala Ala Ala Ala Ala
145           150           155           160
Ala Ala Ala Ala Ala Ala Gly Ser Pro Tyr Ser Leu Leu Asp Leu Gly
           165           170           175
Ser Lys Met Ala Glu Ile Ser Ser Ser Ser Ser Gly Leu Pro Tyr Ala

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<210> 1903
<211> 2209
<212> PRT
<213> Homo sapiens
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<400> 1903															
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Tyr	Leu	Ser	Val 20	Gly	Ser	Arg	Lys	Glu 25	His	Gly	Thr	Ala	Leu 30	Tyr	Gln
Val	Asp	Leu 35	Leu	Val	Lys	Ile	Ser 40	Ser	Glu	Lys	Ala	Ser 45	Leu	Asn	Pro
Lys	Ile 50	Gln	Ala	Cys	Ser	Leu 55	Ser	Asp	Gly	Phe	Ile 60	Ile	Val	Ala	Asp
Gln 65	Ser	Val	Ile	Leu 70	Leu	Asp	Ser	Ile	Cys	Arg 75	Ser	Leu	Gln	Leu	His
Leu	Val	Phe	Asp 85	Thr	Glu	Val	Asp	Val 90	Val	Gly	Leu	Cys	Gln 95	Glu	Gly
Lys	Phe	Leu	Leu 100	Val	Gly	Glu	Arg	Ser 105	Gly	Asn	Leu	His 110	Leu	Ile	His
Val	Thr	Ser 115	Lys	Gln	Thr	Leu 120	Leu	Thr	Asn	Ala	Phe 125	Val	Gln	Lys	Ala
Asn	Asp 130	Glu	Asn	Arg	Arg	Thr 135	Tyr	Gln	Asn	Leu 140	Val	Ile	Glu	Lys	Asp
Gly 145	Ser	Asn	Glu	Gly 150	Thr	Tyr	Tyr	Met	Leu	Leu 155	Leu	Thr	Tyr	Ser	Gly
Phe	Phe	Cys	Ile 165	Thr	Asn	Leu	Gln	Leu 170	Leu	Lys	Ile	Gln	Gln 175	Ala	Ile
Glu	Asn	Val 180	Asp	Phe	Ser	Thr	Ala 185	Lys	Lys	Leu	Gln	Gly 190	Gln	Ile	Lys
Ser	Ser 195	Phe	Ile	Ser	Thr	Glu 200	Asn	Tyr	His	Thr	Leu 205	Gly	Cys	Leu	Ser
Leu	Val 210	Ala	Gly	Asp	Leu	Ala 215	Ser	Glu	Val	Pro 220	Val	Ile	Ile	Gly	Gly
Thr 225	Gly	Asn	Cys	Ala 230	Phe	Ser	Lys	Trp	Glu	Pro 235	Asp	Ser	Ser	Lys	Lys
Gly	Met	Thr	Val 245	Lys	Asn	Leu	Ile 250	Asp	Ala	Glu	Ile	Ile 255	Lys	Gly	Ala
Lys	Lys	Phe	Gln	Leu	Ile	Asp	Asn	Leu	Leu	Phe	Val	Leu	Asp	Thr	Asp

Asn	Val	Leu	Ser	Leu	Trp	Asp	Ile	Tyr	Thr	Leu	Thr	Pro	Val	Trp	Asn
		275					280					285			
Trp	Pro	Ser	Leu	His	Val	Glu	Glu	Phe	Leu	Leu	Thr	Thr	Glu	Ala	Asp
		290				295					300				
Ser	Pro	Ser	Ser	Val	Thr	Trp	Gln	Gly	Ile	Thr	Asn	Leu	Lys	Leu	Ile
305					310					315					320
Ala	Leu	Thr	Ala	Ser	Ala	Asn	Lys	Lys	Met	Lys	Asn	Leu	Met	Val	Tyr
				325					330					335	
Ser	Leu	Pro	Thr	Met	Glu	Ile	Leu	Tyr	Ser	Leu	Glu	Val	Ser	Ser	Val
			340					345					350		
Ser	Ser	Leu	Val	Gln	Thr	Gly	Ile	Ser	Thr	Asp	Thr	Ile	Tyr	Leu	Leu
		355				360						365			
Glu	Gly	Val	Cys	Lys	Asn	Asp	Pro	Lys	Leu	Ser	Glu	Asp	Ser	Val	Ser
	370					375					380				
Val	Leu	Val	Leu	Arg	Cys	Leu	Thr	Glu	Ala	Leu	Pro	Glu	Asn	Arg	Leu
385					390					395					400
Ser	Arg	Leu	Leu	His	Lys	His	Arg	Phe	Ala	Glu	Ala	Glu	Ser	Phe	Ala
				405				410						415	
Ile	Gln	Phe	Gly	Leu	Asp	Val	Glu	Leu	Val	Tyr	Lys	Val	Lys	Ser	Asn
		420					425						430		
His	Ile	Leu	Glu	Lys	Leu	Ala	Leu	Ser	Ser	Val	Asp	Ala	Ser	Glu	Gln
		435					440					445			
Thr	Glu	Trp	Gln	Gln	Leu	Val	Asp	Asp	Ala	Lys	Glu	Asn	Leu	His	Lys
	450					455					460				
Ile	Gln	Asp	Asp	Glu	Phe	Val	Val	Asn	Tyr	Cys	Leu	Lys	Ala	Gln	Trp
465					470					475					480
Ile	Thr	Tyr	Glu	Thr	Gln	Glu	Met	Leu	Asn	Tyr	Ala	Lys	Thr	Arg	
			485					490					495		
Leu	Leu	Lys	Lys	Glu	Asp	Lys	Thr	Ala	Leu	Ile	Tyr	Ser	Asp	Gly	Leu
			500					505					510		
Lys	Glu	Val	Leu	Arg	Ala	His	Ala	Lys	Leu	Thr	Thr	Phe	Tyr	Gly	Ala
		515					520					525			
Phe	Gly	Pro	Glu	Lys	Phe	Ser	Gly	Ser	Ser	Trp	Ile	Glu	Phe	Leu	Asn
	530					535					540				
Asn	Glu	Asp	Asp	Leu	Lys	Asp	Ile	Phe	Leu	Gln	Leu	Lys	Glu	Gly	Asn
545					550					555					560
Leu	Val	Cys	Ala	Gln	Tyr	Leu	Trp	Leu	Arg	His	Arg	Ala	Asn	Phe	Glu
				565					570					575	
Ser	Arg	Phe	Asp	Val	Lys	Met	Leu	Glu	Ser	Leu	Leu	Asn	Ser	Met	Ser
			580					585					590		
Ala	Ser	Val	Ser	Leu	Gln	Lys	Leu	Cys	Pro	Trp	Phe	Lys	Asn	Asp	Val
		595					600					605			
Ile	Pro	Phe	Val	Arg	Arg	Thr	Val	Pro	Glu	Gly	Gln	Ile	Ile	Leu	Ala
	610					615					620				
Lys	Trp	Leu	Glu	Gln	Ala	Arg	Asn	Leu	Glu	Leu	Thr	Asp	Lys	Ala	
625					630				635					640	
Asn	Trp	Pro	Glu	Asn	Gly	Leu	Gln	Leu	Ala	Glu	Ile	Phe	Phe	Thr	Ala
				645					650					655	
Glu	Lys	Thr	Asp	Glu	Leu	Gly	Leu	Ala	Ser	Ser	Trp	His	Trp	Ile	Ser
			660				665						670		
Leu	Lys	Asp	Tyr	Gln	Asn	Thr	Glu	Glu	Val	Cys	Gln	Leu	Arg	Thr	Leu
		675					680					685			
Val	Asn	Asn	Leu	Arg	Glu	Leu	Ile	Thr	Leu	His	Arg	Lys	Tyr	Asn	Cys



690		695		700
Lys Leu Ala Leu Ser Asp Phe Glu Lys Glu Asn Thr Thr Thr Ile Val				
705		710		720
Phe Arg Met Phe Asp Lys Val Leu Ala Pro Glu Leu Ile Pro Ser Ile				
	725		730	735
Leu Glu Lys Phe Ile Arg Val Tyr Met Arg Glu His Asp Leu Gln Glu				
	740		745	750
Glu Glu Leu Leu Leu Leu Tyr Ile Glu Asp Leu Leu Asn Arg Cys Ser				
	755		760	765
Ser Lys Ser Thr Ser Leu Phe Glu Thr Ala Trp Glu Ala Lys Ala Met				
	770		775	780
Ala Val Ile Ala Cys Leu Ser Asp Thr Asp Leu Ile Phe Asp Ala Val				
785		790		800
Leu Lys Ile Met Tyr Ala Ala Val Val Pro Trp Ser Ala Ala Val Glu				
	805		810	815
Gln Leu Val Lys Gln His Leu Glu Met Asp His Pro Lys Val Lys Leu				
	820		825	830
Leu Gln Glu Ser Tyr Lys Leu Met Glu Met Lys Lys Leu Leu Arg Gly				
	835		840	845
Tyr Gly Ile Arg Glu Val Asn Leu Leu Asn Lys Glu Ile Met Arg Val				
	850		855	860
Val Arg Tyr Ile Leu Lys Gln Asp Val Pro Ser Ser Leu Glu Asp Ala				
865		870		880
Leu Lys Val Ala Gln Ala Phe Met Leu Ser Asp Asp Glu Ile Tyr Ser				
	885		890	895
Leu Arg Ile Ile Asp Leu Ile Asp Arg Glu Gln Gly Glu Asp Cys Leu				
	900		905	910
Leu Leu Leu Lys Ser Leu Pro Pro Ala Glu Ala Glu Lys Thr Ala Glu				
	915		920	925
Arg Val Ile Ile Trp Ala Arg Leu Ala Leu Gln Glu Glu Pro Asp His				
	930		935	940
Ser Lys Glu Gly Lys Ala Trp Arg Met Ser Val Ala Lys Thr Ser Val				
945		950		960
Asp Ile Leu Lys Ile Leu Cys Asp Ile Gln Lys Asp Asn Leu Gln Lys				
	965		970	975
Lys Asp Glu Cys Glu Glu Met Leu Lys Leu Phe Lys Glu Val Ala Ser				
	980		985	990
Leu Gln Glu Asn Phe Glu Val Phe Leu Ser Phe Glu Asp Tyr Ser Asn				
	995		1000	1005
Ser Ser Leu Val Ala Asp Leu Arg Glu Gln His Ile Lys Ala His Glu				
	1010		1015	1020
Val Ala Gln Ala Lys His Lys Pro Gly Ser Thr Pro Glu Pro Ile Ala				
1025		1030		1040
Ala Glu Val Arg Ser Pro Ser Met Glu Ser Lys Leu His Arg Gln Ala				
	1045		1050	1055
Leu Ala Leu Gln Met Ser Lys Gln Glu Leu Glu Ala Glu Leu Thr Leu				
	1060		1065	1070
Arg Ala Leu Lys Asp Gly Asn Ile Lys Thr Ala Leu Lys Lys Cys Ser				
	1075		1080	1085
Asp Leu Phe Lys Tyr His Cys Asn Ala Asp Thr Gly Lys Leu Leu Phe				
	1090		1095	1100
Leu Thr Cys Gln Lys Leu Cys Gln Met Leu Ala Asp Asn Val Pro Val				
1105		1110		1120
Thr Val Pro Val Gly Leu Asn Leu Pro Ser Met Ile His Asp Leu Ala				

					1125					1130					1135	
Ser	Gln	Ala	Ala	Thr	Ile	Cys	Ser	Pro	Asp	Phe	Leu	Leu	Asp	Ala	Leu	
			1140					1145					1150			
Glu	Leu	Cys	Lys	His	Thr	Leu	Met	Ala	Val	Glu	Leu	Ser	Arg	Gln	Cys	
		1155					1160					1165				
Gln	Met	Asp	Asp	Cys	Gly	Ile	Leu	Met	Lys	Ala	Ser	Phe	Gly	Thr	His	
	1170					1175					1180					
Lys	Asp	Pro	Tyr	Glu	Glu	Trp	Ser	Tyr	Ser	Asp	Phe	Phe	Ser	Glu	Asp	
1185					1190					1195					1200	
Gly	Ile	Val	Leu	Glu	Ser	Gln	Met	Val	Leu	Pro	Val	Ile	Tyr	Glu	Leu	
			1205					1210						1215		
Ile	Ser	Ser	Leu	Val	Pro	Leu	Ala	Glu	Ser	Lys	Arg	Tyr	Pro	Leu	Glu	
		1220					1225					1230				
Ser	Thr	Ser	Leu	Pro	Tyr	Cys	Ser	Leu	Asn	Glu	Gly	Asp	Gly	Leu	Val	
	1235						1240				1245					
Leu	Pro	Val	Ile	Asn	Ser	Ile	Ser	Ala	Leu	Leu	Gln	Asn	Leu	Gln	Glu	
	1250				1255					1260						
Ser	Ser	Gln	Trp	Glu	Leu	Ala	Leu	Arg	Phe	Val	Val	Gly	Ser	Phe	Gly	
1265					1270					1275					1280	
Thr	Cys	Leu	Gln	His	Ser	Val	Ser	Asn	Phe	Met	Asn	Ala	Thr	Leu	Ser	
			1285						1290					1295		
Glu	Lys	Leu	Phe	Gly	Glu	Thr	Thr	Leu	Val	Lys	Ser	Arg	His	Val	Val	
		1300					1305					1310				
Met	Glu	Leu	Lys	Glu	Lys	Ala	Val	Ile	Phe	Ile	Arg	Glu	Asn	Ala	Thr	
	1315					1320					1325					
Thr	Leu	Leu	His	Lys	Val	Phe	Asn	Cys	Arg	Leu	Val	Asp	Leu	Asp	Leu	
	1330				1335					1340						
Ala	Leu	Gly	Tyr	Cys	Thr	Leu	Leu	Pro	Gln	Lys	Asp	Val	Phe	Glu	Asn	
1345					1350					1355					1360	
Leu	Trp	Lys	Leu	Ile	Asp	Lys	Ala	Trp	Gln	Asn	Tyr	Asp	Lys	Ile	Leu	
		1365					1370							1375		
Ala	Ile	Ser	Leu	Val	Gly	Ser	Glu	Leu	Ala	Ser	Leu	Tyr	Gln	Glu	Ile	
		1380					1385				1390					
Glu	Met	Gly	Leu	Lys	Phe	Arg	Glu	Leu	Ser	Thr	Asp	Ala	Gln	Trp	Gly	
	1395					1400					1405					
Ile	Arg	Leu	Gly	Lys	Leu	Gly	Ile	Ser	Phe	Gln	Pro	Val	Phe	Arg	Gln	
	1410				1415					1420						
His	Phe	Leu	Thr	Lys	Lys	Asp	Leu	Ile	Lys	Ala	Leu	Val	Glu	Asn	Ile	
1425					1430					1435					1440	
Asp	Met	Asp	Thr	Ser	Leu	Ile	Leu	Glu	Tyr	Cys	Ser	Thr	Phe	Gln	Leu	
			1445					1450						1455		
Asp	Cys	Asp	Ala	Val	Leu	Gln	Leu	Phe	Ile							

1555	1560	1565
Val Asp Leu Glu Tyr Gln Tyr Met Leu Glu His	Val Ile Thr Leu Pro	
1570	1575	1580
Ser Ala Ala Gln Thr Arg Leu Pro Phe His Leu Ile Phe Phe Gly Thr		
1585	1590	1595
Ala Gln Asn Phe Trp Lys Ile Leu Ser Thr Glu Leu Ser Glu Glu Ser		1600
1605	1610	1615
Phe Pro Thr Leu Leu Ile Ser Lys Leu Met Lys Phe Ser Leu Asp		
1620	1625	1630
Thr Leu Tyr Val Ser Thr Ala Lys His Val Phe Glu Lys Lys Leu Lys		
1635	1640	1645
Pro Lys Leu Leu Lys Leu Thr Gln Ala Lys Ser Ser Thr Leu Ile Asn		
1650	1655	1660
Lys Glu Ile Thr Lys Ile Thr Gln Thr Ile Glu Ser Cys Leu Leu Ser		
1665	1670	1675
Ile Val Asn Pro Glu Trp Ala Val Ala Ile Ala Ile Ser Leu Ala Gln		
1685	1690	1695
Asp Ile Pro Glu Gly Ser Phe Lys Ile Ser Ala Leu Lys Phe Cys Leu		
1700	1705	1710
Tyr Leu Ala Glu Arg Trp Leu Gln Asn Ile Pro Ser Gln Asp Glu Lys		
1715	1720	1725
Arg Glu Lys Ala Glu Ala Leu Leu Lys Lys Leu His Ile Gln Tyr Arg		
1730	1735	1740
Arg Ser Gly Thr Glu Ala Val Leu Ile Ala His Lys Leu Asn Thr Glu		
1745	1750	1755
Glu Tyr Leu Arg Val Ile Gly Lys Pro Ala His Leu Ile Val Ser Leu		
1765	1770	1775
Tyr Glu His Pro Ser Ile Asn Gln Arg Ile Gln Asn Ser Ser Gly Thr		
1780	1785	1790
Asp Tyr Pro Asp Ile His Ala Ala Ala Lys Glu Ile Ala Glu Val Asn		
1795	1800	1805
Glu Ile Asn Leu Glu Lys Val Trp Asp Met Leu Leu Glu Lys Trp Leu		
1810	1815	1820
Cys Pro Ser Thr Lys Pro Gly Glu Lys Pro Ser Glu Leu Phe Glu Leu		
1825	1830	1835
Gln Glu Asp Glu Ala Leu Arg Arg Val Gln Tyr Leu Leu Leu Ser Arg		
1845	1850	1855
Pro Ile Asp Tyr Ser Ser Arg Met Leu Phe Val Phe Ala Thr Ser Thr		
1860	1865	1870
Thr Thr Thr Leu Gly Met His Gln Leu Thr Phe Ala His Arg Thr Arg		
1875	1880	1885
Ala Leu Gln Cys Leu Phe Tyr Leu Ala Asp Lys Glu Thr Ile Glu Ser		
1890	1895	1900
Leu Phe Lys Lys Pro Ile Glu Glu Val Lys Ser Tyr Leu Arg Cys Ile		
1905	1910	1915
Thr Phe Leu Ala Ser Phe Glu Thr Leu Asn Ile Pro Ile Thr Tyr Glu		
1925	1930	1935
Leu Phe Cys Ser Ser Pro Lys Glu Gly Met Ile Lys Gly Leu Trp Lys		
1940	1945	1950
Asn His Ser His Glu Ser Met Ala Val Arg Leu Val Thr Glu Leu Cys		
1955	1960	1965
Leu Glu Tyr Lys Ile Tyr Asp Leu Gln Leu Trp Asn Gly Leu Leu Gln		
1970	1975	1980
Lys Leu Leu Gly Phe Asn Met Ile Pro Tyr Leu Arg Lys Val Leu Lys		

1985		1990		1995		2000
Ala Ile Ser Ser Ile His Ser Leu Trp Gln Val Pro Tyr Phe Ser Lys						
	2005			2010		2015
Ala Trp Gln Arg Val Ile Gln Ile Pro Leu Leu Ser Ala Ser Cys Pro						
	2020			2025		2030
Leu Ser Pro Asp Gln Leu Ser Asp Cys Ser Glu Ser Leu Ile Ala Val						
	2035			2040		2045
Leu Glu Cys Pro Val Ser Gly Asp Leu Asp Leu Ile Gly Val Ala Arg						
	2050			2055		2060
Gln Tyr Ile Gln Leu Glu Leu Pro Ala Phe Ala Leu Ala Cys Leu Met						
	2065			2070		2075
Leu Met Pro His Ser Glu Lys Arg His Gln Gln Ile Lys Asn Phe Leu						
	2085			2090		2095
Gly Ser Cys Asp Pro Gln Val Ile Leu Lys Gln Leu Glu Glu His Met						
	2100			2105		2110
Asn Thr Gly Gln Leu Ala Gly Phe Ser His Gln Ile Arg Ser Leu Ile						
	2115			2120		2125
Leu Asn Asn Ile Ile Asn Lys Lys Glu Phe Gly Ile Leu Ala Lys Thr						
	2130			2135		2140
Lys Tyr Phe Gln Met Leu Lys Met His Ala Met Asn Thr Asn Asn Ile						
	2145			2150		2155
Thr Glu Leu Val Asn Tyr Leu Ala Asn Asp Leu Ser Leu Asp Glu Ala						
	2165			2170		2175
Ser Val Leu Ile Thr Glu Tyr Ser Lys His Cys Gly Lys Pro Val Pro						
	2180			2185		2190
Pro Asp Thr Ala Pro Cys Glu Ile Leu Lys Met Phe Leu Ser Gly Leu						
	2195			2200		2205
Ser						

<210> 1904  
 <211> 197  
 <212> PRT  
 <213> Homo sapiens

<400> 1904  
 Met Gln Arg Ala Ser Arg Leu Lys Arg Glu Leu His Met Leu Ala Thr  
 1 5 10 15  
 Glu Pro Pro Pro Gly Ile Thr Cys Trp Gln Asp Lys Asp Gln Met Asp  
 20 25 30  
 Asp Leu Arg Ala Gln Ile Leu Gly Gly Ala Asn Thr Pro Tyr Glu Lys  
 35 40 45  
 Gly Val Phe Lys Leu Glu Val Ile Ile Pro Glu Arg Tyr Pro Phe Glu  
 50 55 60  
 Pro Pro Gln Ile Arg Phe Leu Thr Pro Ile Tyr His Pro Asn Ile Asp  
 65 70 75 80  
 Ser Ala Gly Arg Ile Cys Leu Asp Val Leu Lys Leu Pro Pro Lys Gly  
 85 90 95  
 Ala Trp Arg Pro Ser Leu Asn Ile Ala Thr Val Leu Thr Ser Ile Gln  
 100 105 110  
 Leu Leu Met Ser Glu Pro Asn Pro Asp Asp Pro Leu Met Ala Asp Ile  
 115 120 125  
 Ser Ser Glu Phe Lys Tyr Asn Lys Pro Ala Phe Leu Lys Asn Ala Arg

130                      135                      140  
 Gln Trp Thr Glu Lys His Ala Arg Gln Lys Gln Lys Ala Asp Glu Glu  
 145                      150                      155                      160  
 Glu Met Leu Asp Asn Leu Pro Glu Ala Gly Asp Ser Arg Val His Asn  
                     165                      170                      175  
 Ser Thr Gln Lys Arg Lys Ala Ser Gln Leu Val Gly Ile Glu Lys Lys  
                     180                      185                      190  
 Phe His Pro Asp Val  
                     195

<210> 1905

<211> 202

<212> PRT

<213> Homo sapiens

<400> 1905

Met Ala Thr Leu Ile Tyr Val Asp Lys Glu Asn Gly Glu Pro Gly Thr  
 1                      5                      10                      15  
 Arg Val Val Ala Lys Asp Gly Leu Lys Leu Gly Ser Gly Pro Ser Ile  
                     20                      25                      30  
 Lys Ala Leu Asp Gly Arg Ser Gln Val Ser Thr Pro Arg Phe Gly Lys  
                     35                      40                      45  
 Thr Phe Asp Ala Pro Pro Ala Leu Pro Lys Ala Thr Arg Lys Ala Leu  
                     50                      55                      60  
 Gly Thr Val Asn Arg Ala Thr Glu Lys Ser Val Lys Thr Lys Gly Pro  
 65                      70                      75                      80  
 Leu Lys Gln Lys Gln Pro Ser Phe Ser Ala Lys Lys Met Thr Glu Lys  
                     85                      90                      95  
 Thr Val Lys Ala Lys Ser Ser Val Pro Ala Ser Asp Asp Ala Tyr Pro  
                     100                      105                      110  
 Glu Ile Glu Lys Phe Phe Pro Phe Asn Pro Leu Asp Phe Glu Ser Phe  
                     115                      120                      125  
 Asp Leu Pro Glu Glu His Gln Ile Ala His Leu Pro Leu Ser Gly Val  
                     130                      135                      140  
 Pro Leu Met Ile Leu Asp Glu Glu Arg Glu Leu Glu Lys Leu Phe Gln  
 145                      150                      155                      160  
 Leu Gly Pro Pro Ser Pro Val Lys Met Pro Ser Pro Pro Trp Glu Ser  
                     165                      170                      175  
 Asn Leu Leu Gln Ser Pro Ser Ser Ile Leu Ser Thr Leu Asp Val Glu  
                     180                      185                      190  
 Leu Pro Pro Val Cys Cys Asp Ile Asp Ile  
                     195                      200

<210> 1906

<211> 464

<212> PRT

<213> Homo sapiens

<400> 1906

Met Glu Thr Leu Ser Phe Pro Arg Tyr Asn Ile Ala Glu Ile Val Val  
 1                      5                      10                      15  
 His Ile Arg Asn Lys Leu Leu Thr Gly Ala Asp Gly Lys Asn Leu Ser

Lys	Ser	Asp	Phe	Leu	Pro	Asn	Pro	Lys	Pro	Glu	Val	Leu	Tyr	Met	Ile
		35					40					45			
Tyr	Met	Arg	Ala	Leu	Gln	Leu	Val	Tyr	Gly	Val	Arg	Leu	Glu	His	Phe
	50					55					60				
Tyr	Met	Met	Pro	Val	Asn	Ile	Glu	Val	Met	Tyr	Pro	His	Ile	Met	Glu
65					70					75					80
Gly	Phe	Leu	Pro	Val	Ser	Asn	Leu	Phe	Phe	His	Leu	Asp	Ser	Phe	Met
				85					90					95	
Pro	Ile	Cys	Arg	Val	Asn	Asp	Phe	Glu	Ile	Ala	Asp	Ile	Leu	Tyr	Pro
			100					105					110		
Lys	Ala	Asn	Arg	Thr	Ser	Arg	Phe	Leu	Ser	Gly	Ile	Ile	Asn	Phe	Ile
		115					120					125			
His	Phe	Arg	Glu	Thr	Cys	Leu	Glu	Lys	Tyr	Glu	Glu	Phe	Leu	Leu	Gln
	130					135					140				
Asn	Lys	Ser	Ser	Val	Asp	Lys	Ile	Gln	Gln	Leu	Ser	Asn	Ala	His	Gln
145					150					155					160
Glu	Ala	Leu	Met	Lys	Leu	Glu	Lys	Leu	Asn	Ser	Val	Pro	Val	Glu	Glu
				165					170					175	
Gln	Glu	Glu	Phe	Lys	Gln	Leu	Lys	Asp	Asp	Ile	Gln	Glu	Leu	Gln	His
			180					185					190		
Leu	Leu	Asn	Gln	Asp	Phe	Arg	Gln	Lys	Thr	Thr	Leu	Leu	Gln	Glu	Arg
		195					200					205			
Tyr	Thr	Lys	Met	Lys	Ser	Asp	Phe	Ser	Glu	Lys	Thr	Lys	His	Val	Asn
	210					215					220				
Glu	Leu	Lys	Leu	Ser	Val	Val	Ser	Leu	Lys	Glu	Val	Gln	Asp	Ser	Leu
225					230					235					240
Lys	Ser	Lys	Ile	Val	Asp	Ser	Pro	Glu	Lys	Leu	Lys	Asn	Tyr	Lys	Glu
				245					250					255	
Lys	Met	Lys	Asp	Thr	Val	Gln	Lys	Leu	Arg	Ser	Ala	Arg	Glu	Glu	Val
			260					265					270		
Met	Glu	Lys	Tyr	Asp	Ile	Tyr	Arg	Asp	Ser	Val	Asp	Cys	Leu	Pro	Ser
		275					280					285			
Cys	Gln	Leu	Glu	Val	Gln	Leu	Tyr	Gln	Lys	Lys	Ser	Gln	Asp	Leu	Ala
	290					295					300				
Asp	Asn	Arg	Glu	Lys	Leu	Ser	Ser	Ile	Leu	Lys	Glu	Ser	Leu	Asn	Leu
305					310					315					320
Glu	Gly	Gln	Ile	Asp	Ser	Asp	Ser	Ser	Glu	Leu	Lys	Lys	Leu	Lys	Thr
				325					330					335	
Glu	Glu	Asn	Ser	Leu	Ile	Arg	Leu	Met	Thr	Leu	Lys	Lys	Glu	Arg	Leu
			340					345					350		
Ala	Thr	Met	Gln	Phe	Lys	Ile	Asn	Lys	Lys	Gln	Glu	Asp	Val	Lys	Gln
		355					360					365			
Tyr	Lys	Arg	Thr	Met	Ile	Glu	Asp	Cys	Asn	Lys	Val	Gln	Glu	Lys	Arg
	370					375									

450

455

460

<210> 1907  
 <211> 168  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1907

```

Met Ala Glu Pro Trp Gly Asn Glu Leu Ala Ser Ala Ala Ala Arg Gly
 1          5          10          15
Asp Leu Glu Gln Leu Thr Ser Leu Leu Gln Asn Asn Val Asn Val Asn
          20          25          30
Ala Gln Asn Gly Phe Gly Arg Thr Ala Leu Gln Val Met Lys Leu Gly
          35          40          45
Asn Pro Glu Ile Ala Arg Arg Leu Leu Leu Arg Gly Ala Asn Pro Asp
          50          55          60
Leu Lys Asp Arg Thr Gly Phe Ala Val Ile His Asp Ala Ala Arg Ala
65          70          75          80
Gly Phe Leu Asp Thr Leu Gln Thr Leu Leu Glu Phe Gln Ala Asp Val
          85          90          95
Asn Ile Glu Asp Asn Glu Gly Asn Leu Pro Leu His Leu Ala Ala Lys
          100          105          110
Glu Gly His Leu Arg Val Val Glu Phe Leu Val Lys His Thr Ala Ser
          115          120          125
Asn Val Gly His Arg Asn His Lys Gly Asp Thr Ala Cys Asp Leu Ala
          130          135          140
Arg Leu Tyr Gly Arg Asn Glu Val Val Ser Leu Met Gln Ala Asn Gly
          145          150          155          160
Ala Gly Gly Ala Thr Asn Leu Gln
          165

```

<210> 1908  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1908

```

Met Glu Pro Ala Ala Gly Ser Ser Met Glu Pro Ser Ala Asp Trp Leu
 1          5          10          15
Ala Thr Ala Ala Ala Arg Gly Arg Val Glu Glu Val Arg Ala Leu Leu
          20          25          30
Glu Ala Gly Ala Leu Pro Asn Ala Pro Asn Ser Tyr Gly Arg Arg Pro
          35          40          45
Ile Gln Val Met Met Met Gly Ser Ala Arg Val Ala Glu Leu Leu Leu
          50          55          60
Leu His Gly Ala Glu Pro Asn Cys Ala Asp Pro Ala Thr Leu Thr Arg
65          70          75          80
Pro Val His Asp Ala Ala Arg Glu Gly Phe Leu Asp Thr Leu Val Val
          85          90          95
Leu His Arg Ala Gly Ala Arg Leu Asp Val Arg Asp Ala Trp Gly Arg
          100          105          110
Leu Pro Val Asp Leu Ala Glu Glu Leu Gly His Arg Asp Val Ala Arg

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115                      120                      125  
 Tyr Leu Arg Ala Ala Ala Gly Gly Thr Arg Gly Ser Asn His Ala Arg  
 130                      135                      140  
 Ile Asp Ala Ala Glu Gly Pro Ser Asp Ile Pro Asp  
 145                      150                      155

<210> 1909  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 1909  
 Met Lys Lys Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val  
 1                      5                      10                      15  
 Leu Ile Gly Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser  
 20                      25                      30  
 Cys Ile Ser Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp  
 35                      40                      45  
 Leu Lys Gln Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile  
 50                      55                      60  
 Ala Thr Leu Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala  
 65                      70                      75                      80  
 Asp Val Lys Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys  
 85                      90                      95  
 Lys Lys Gln Lys Asn Gly Lys Lys His Gln Lys Lys Lys Val Leu Lys  
 100                      105                      110  
 Val Arg Lys Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr  
 115                      120                      125

<210> 1910  
 <211> 931  
 <212> DNA  
 <213> Homo sapiens

<400> 1910  
 caacagtcag aggtcgcgca ggcgctggta cccggttggg cgcgcgcttg ctgcgttgtg 60  
 aggggtgtca gtcagtgca tcccaggcag ctcttagtgt ggagcagtga actgtgtgtg 120  
 gttccttcta cttggggatc atgcagagag cttcrgctct gaagagagag ctgcacatgt 180  
 tagccacaga gccaccccca ggcacacat gttggcaaga taaagaccaa atggatgacc 240  
 tgcgagctca aatattaggt ggagccaaca caccttatga gaaaggtgtt ttttaagctag 300  
 aagttatcat tcctgagagg tacccatttg aacctcctca gatccgattt ctcactccaa 360  
 tttatcatcc aaacattgat tctgctggaa ggatttgtct ggatgttctc aaattgccac 420  
 caaaaggtgc ttggagacca tccctcaaca tcgcaactgt gttgacctct attcagctgc 480  
 tcatgtcaga acccaaccct gatgaccgcg tcatggctga catatcctca gaatttaaat 540  
 ataataagcc agccttcctc aagaatgcc aagatggac agagaagcat gcaagacaga 600  
 aacaaaaggc tgatgaggaa gagatgcttg ataactacc agaggctggg gactccagag 660  
 tacacaactc aacacagaaa aggaaggcca gtcagctagt aggcatagaa aagaaatttc 720  
 atcctgatgt ttaggggact tgtcctgggt catcttagtt aatgtgttct ttgccaaggt 780  
 gatctaagtt gcctaccttg aatttttttt taaatatatt tgatgacata attttttgtg 840  
 agtttattta tctgtacat atgtattttg aaatctttta aacctgaaaa ataaatagtc 900  
 atttaatggt gaaaaaaaaa aaaaaaaaaa a 931



<220>  
<223> PCR primer

27

<220>  
<223> PCR primer

37

<400>	1913															
Met	Gln	His	His	His	His	His	His	Ala	Lys	Gly	Asp	Pro	Lys	Lys	Pro	
1				5	His	Tyr	Ala	Phe	10					15		
Lys	Gly	Lys	Met	Ser	Ala				Phe	Val	Gln	Thr	Cys	Arg	Glu	
			20					25					30			
Glu	His	Lys	Lys	Lys	Asn	Pro	Glu	Val	Pro	Val	Asn	Phe	Ala	Glu	Phe	
		35					40					45				
Ser	Lys	Lys	Cys	Ser	Glu	Arg	Trp	Lys	Thr	Met	Ser	Gly	Lys	Glu	Lys	
	50					55					60					
Ser	Lys	Phe	Asp	Glu	Met	Ala	Lys	Ala	Asp	Lys	Val	Arg	Tyr	Asp	Arg	
65					70					75					80	
Glu	Met	Lys	Asp	Tyr	Gly	Pro	Ala	Lys	Gly	Gly	Lys	Lys	Lys	Lys	Asp	
				85					90					95		
Pro	Asn	Ala	Pro	Lys	Arg	Pro	Pro	Ser	Gly	Phe	Phe	Leu	Phe	Cys	Ser	
			100					105					110			
Glu	Phe	Arg	Pro	Lys	Ile	Lys	Ser	Thr	Asn	Pro	Gly	Ile	Ser	Ile	Gly	
		115					120					125				
Asp	Val	Ala	Lys	Lys	Leu	Gly	Glu	Met	Trp	Asn	Asn	Leu	Asn	Asp	Ser	
	130					135					140					
Glu	Lys	Gln	Pro	Tyr	Ile	Thr	Lys	Ala	Ala	Lys	Leu	Lys	Glu	Lys	Tyr	
145					150					155					160	
Glu	Lys	Asp	Val	Ala	Asp	Tyr	Lys	Ser	Lys	Gly	Lys	Phe	Asp	Gly	Ala	
				165					170					175		
Lys	Gly	Pro	Ala	Lys	Val	Ala	Arg	Lys	Lys	Val	Glu	Glu	Glu	Asp	Glu	
			180					185					190			
Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Glu		
		195					200						205			

<210> 1914  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<400> 1914  
 atgcagcatc accaccatca ccacgctaaa ggtgacccca agaaacccaaa gggcaagatg 60  
 tccgcttatg ccttctttgt gcagacatgc agagaagaac ataagaagaa aaacccagag 120  
 gtccctgtca attttgcgga attttccaag aagtgtctctg agaggtggaa gacgatgtcc 180  
 gggaaagaga aatctaaatt tgatgaaatg gcaaaggcag ataaagtgcg ctatgatcgg 240  
 gaaatgaagg attatggacc agctaaggga ggcaagaaga agaaggatcc taatgctccc 300  
 aaaaggccac cgtctggatt cttcctgttc tgttcagaat tccgccccaa gatcaaattcc 360  
 acaaaccctg gcatctctat tggagacgtg gcaaaaaagc tgggtgagat gtggaataat 420  
 ttaaattgaca gtgaaaagca gccttacatc actaaggcgg caaagctgaa ggagaagtat 480  
 gagaaggatg ttgctgacta taagtcgaaa ggaaagtgtg atggtgcaaa ggggccagct 540  
 aaagttgccc ggaaaaaggt ggaagaggaa gatgaagaag aggaggagga agaagaggag 600  
 gaggaggagg aggaggatga ataa 624

<210> 1915  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1915  
 gtgacgatgg aggagctgcg ggagatgg 28

<210> 1916  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1916  
 cgcctaactc gagtcactaa cagctgggag 30

<210> 1917  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens

<400> 1917  
 Met Gln His His His His His Val Thr Met Glu Glu Leu Arg Glu  
 1 5 10 15  
 Met Asp Cys Ser Val Leu Lys Arg Leu Met Asn Arg Asp Glu Asn Gly  
 20 25 30  
 Gly Gly Ala Gly Gly Ser Gly Ser His Gly Thr Leu Gly Leu Pro Ser  
 35 40 45

Gly Gly Lys Cys Leu Leu Leu Asp Cys Arg Pro Phe Leu Ala His Ser  
 50 55 60  
 Ala Gly Tyr Ile Leu Gly Ser Val Asn Val Arg Cys Asn Thr Ile Val  
 65 70 75 80  
 Arg Arg Arg Ala Lys Gly Ser Val Ser Leu Glu Gln Ile Leu Pro Ala  
 85 90 95  
 Glu Glu Glu Val Arg Ala Arg Leu Arg Ser Gly Leu Tyr Ser Ala Val  
 100 105 110  
 Ile Val Tyr Asp Glu Arg Ser Pro Arg Ala Glu Ser Leu Arg Glu Asp  
 115 120 125  
 Ser Thr Val Ser Leu Val Val Gln Ala Leu Arg Arg Asn Ala Glu Arg  
 130 135 140  
 Thr Asp Ile Cys Leu Leu Lys Gly Gly Tyr Glu Arg Phe Ser Ser Glu  
 145 150 155 160  
 Tyr Pro Glu Phe Cys Ser Lys Thr Lys Ala Leu Ala Ala Ile Pro Pro  
 165 170 175  
 Pro Val Pro Pro Ser Ala Thr Glu Pro Leu Asp Leu Gly Cys Ser Ser  
 180 185 190  
 Cys Gly Thr Pro Leu His Asp Gln Gly Gly Pro Val Glu Ile Leu Pro  
 195 200 205  
 Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ala Arg Arg Asp Met Leu  
 210 215 220  
 Asp Ala Leu Gly Ile Thr Ala Leu Leu Asn Val Ser Ser Asp Cys Pro  
 225 230 235 240  
 Asn His Phe Glu Gly His Tyr Gln Tyr Lys Cys Ile Pro Val Glu Asp  
 245 250 255  
 Asn His Lys Ala Asp Ile Ser Ser Trp Phe Met Glu Ala Ile Glu Tyr  
 260 265 270  
 Ile Asp Ala Val Lys Asp Cys Arg Gly Arg Val Leu Val His Cys Gln  
 275 280 285  
 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Met  
 290 295 300  
 Lys Lys Arg Val Arg Leu Glu Glu Ala Phe Glu Phe Val Lys Gln Arg  
 305 310 315 320  
 Arg Ser Ile Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln  
 325 330 335  
 Phe Glu Ser Gln Val Leu Ala Thr Ser Cys Ala Ala Glu Ala Ala Ser  
 340 345 350  
 Pro Ser Gly Pro Leu Arg Glu Arg Gly Lys Thr Pro Ala Thr Pro Thr  
 355 360 365  
 Ser Gln Phe Val Phe Ser Phe Pro Val Ser Val Gly Val His Ser Ala  
 370 375 380  
 Pro Ser Ser Leu Pro Tyr Leu His Ser Pro Ile Thr Thr Ser Pro Ser  
 385 390 395 400  
 Cys

<210> 1918

<211> 1209

<212> DNA

<213> Homo sapiens

<400> 1918

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atgcagcatc accaccatca ccacgtgacg atggaggagc tgcggggagat ggactgcagt 60
gtgctcaaaa ggctgatgaa ccgggacgag aatggcggcg gcgcggggcgg cagcgggcagc 120
cacggcaccc tggggctgcc gagcggcggc aagtgcctgc tgcctggactg cagaccgttc 180
ctggcgacaca gcgcgggcta catcctaggt tcgggtcaacg tgcgctgtaa caccatcgtg 240
cggcggcggg ctaagggctc cgtgagcctg gagcagatcc tgcccgcga ggaggaggta 300
cgcgcccgtc tgcgtccgg cctctactcg gcggtcatcg tctacgacga gcgcagcccg 360
cgcgccgaga gcctccgga ggacagcacc gtgtcgctgg tgggtgcaggc gctgcgccgc 420
aacgcccagc gcaccgacat ctgcctgctc aaaggcggt atgagagggtt ttcctccgag 480
taccagaat tctgttctaa aaccaaggcc ctggcagcca tcccaccccc ggttcccccc 540
agtgccacag agcccttggc cctgggctgc agctcctgtg ggaccccact acacgaccag 600
gggggtcctg tggagatcct tcccttcctc tacctcgga gtgcctacca tgcctcccg 660
agagacatgc tggacgcctt gggcatcacg gctctgttga atgtctcctc ggactgcccc 720
aaccactttg aaggacacta tcagtacaag tgcattccag tggagataa ccacaaggcc 780
gacatcagct cctgggttcat ggaagccata gactacatcg atgccgtgaa ggactgccgt 840
gggcgcgtgc tgggtgactg ccaggcgggc atctcgcggt cggccaccat ctgcctgggc 900
tacctgatga tgaagaaacg ggtgaggtg gaggaggcct tcgagttcgt taagcagcgc 960
cgcagcatca tctgcccaa cttcagcttc atggggcagc tgcctgcagtt cgagtcccag 1020
gtgctggcca cgtcctgtgc tgcggaggct gctagccct cgggaccct gcgggagcgg 1080
ggcaagaccc ccgccacccc cacctcgag ttctgttca gctttccggt ctccgtgggc 1140
gtgcactcgg cccccagcag cctgccctac ctgcacagcc ccattaccac ctctccagc 1200
tgtagtaga 1209

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<210> 1919
<211> 23
<212> DNA
<213> Artificial Sequence

```

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<220>
<223> PCR primer

```

```

<400> 1919
cgggtgccacg cccatggacc ttc 23

```

```

<210> 1920
<211> 35
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> PCR primer

```

```

<400> 1920
ctgagaattc attaaacttg tggttgctct tcacc 35

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```

<210> 1921
<211> 167
<212> PRT
<213> Homo sapiens

```

```

<400> 1921
Met Gln His His His His His Arg Cys His Ala His Gly Pro Ser
1          5          10          15
Cys Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly
20          25          30

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Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg  
           35                          40                          45  
 Ser Thr Trp Asn Pro Asp Arg Arg Phe Trp Thr Pro Gln Thr Gly Pro  
           50                          55                          60  
 Gly Glu Gly Arg His Glu Arg His Thr Gln Thr Gln Asn His Thr Ala  
 65                          70                          75                          80  
 Ser Pro Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys Asn Gln Gln  
                           85                          90                          95  
 Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile Arg  
                           100                          105                          110  
 Ile Gln Leu Arg Ser Gln Cys Ala Thr Trp Lys Val Ile Cys Lys Ser  
                           115                          120                          125  
 Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu Asp Leu Gly Ser Gly Val  
           130                          135                          140  
 Lys Val Lys Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro Glu Ala  
 145                          150                          155                          160  
 Gly Glu Glu Gln Pro Gln Val  
                           165

<210> 1922  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<400> 1922  
 atgcagcatc accaccatca ccaccggtgc cagcggccatg gaccttcttg tctcgctcacg 60  
 gccataacta gggaggaagg agggccgagg agtggagggg ctcaggcgaa gctgggggtgc 120  
 tgttgggggt atccgagtcc cagaagcacc tggaaccccg acagaagatt ctggactccc 180  
 cagacgggac caggagaggg acggcatgag cgacacacac aaacacagaa ccacacagcc 240  
 agtcccagga gcccagtaat ggagagcccc aaaaagaaga accagcagct gaaagtcggg 300  
 atcctacacc tgggcagcag acagaagaag atcaggatac agctgagatc ccagtgcgcg 360  
 acatggaagg tgatctgcaa gagctgcatac agtcaaacac cggggataaa tctggatttg 420  
 ggttccggcg tcaaggtgaa gataatacct aaagaggaa actgtaaaat gccagaagca 480  
 ggtgaagagc aaccacaagt ttaatga 507

<210> 1923  
 <211> 3192  
 <212> DNA  
 <213> Homo sapiens

<400> 1923  
 cccacgcgtc cggcgggtgc cgcgggattt ggagctgcct agcctcgcgg tcgctttggc 60  
 agcatgtaag cagctgtttg ccaagaaccc aggtcaactgc taagaaaggg tgccttcggg 120  
 agaagagtgt ccagaggata ccaatgccag atgcatcttg agttacactc agcactcgca 180  
 gtatgagaca ttgtgtgcca gcatctcttt ccttctggca aagactgtag ctctccaggt 240  
 aggaggatcc tggaaagctgt gaggaccagg agccttgcca gaggaggatg gggccagata 300  
 tgaactctct accatgaaca tggttctcgg cttatgaagg aattttaagt aaaacagtta 360  
 ttttaatttc acatattcaa gtcaaaagcc ttctgtgtga agtgccagtg attaccctc 420  
 cacaggagtt atcaggattt ttctggcacc aagtttaatt cttcttcgta cttctggtag 480  
 tgacagatct gcagggcaga tttatctgtt gaatgctctt gggcaggaaa accatgtaaa 540  
 acctctggaa gcagcatcag gacagcagag cagagccccc gtccctcaactg ctcaacttgca 600  
 cagaaactcc atctggactc ggatgctttt actgaagacc catctagctt caatcatctt 660  
 tagagtccat ccattctgga gagacctggc gtttgacagt gctcctctgt gccgtgtttt 720

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tctgtcattc tgttcccagg ctttctattc aggcgggttga aggggtgtgga ctttggaatg 780
gggtttgctg ttcttcggga acttgcttcc ttccctggc tgggtgctgtc aggaaggacc 840
atctgaaggc tgcaatttgt tcttagggag gcaggtgctg gcctggcctg gatcttccac 900
catgttccctg ttgtctgcctt ttgatagcct gattgtcaac cttctgggca tctccctgac 960
tgtcctcttc accctccttc tcgttttcat catagtgcc a gccatttttg gagtctcctt 1020
tggatatccgc aaactctaca tgaaaagtct gttaaaaatc tttgctgagg ctaccttgag 1080
aatggagcga ggagccaagg agaagaacca ccagctttac aagccctaca ccaacggaat 1140
cattgcaaag gatcccaact cactagaaga agagatcaaa gagattcgtc gaagtggtag 1200
tagtaaggct ctggacaaca ctccagagtt cgagctctct gacattttct acttttgccg 1260
gaaaggaatg gagaccatta tggatgatga ggtgacaaag agattctcag cagaagaact 1320
ggagtccctgg aacctgctga gcagaaccaa ttataacttc cagtacatca gccttcggct 1380
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<210> 1924

<211> 2048

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 787, 1453, 1521, 1727

<223> n = A,T,C or G

<400> 1924

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<210> 1925  
 <211> 456  
 <212> PRT  
 <213> Homo sapiens

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<400> 1925
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 1           5           10          15
Ile Ser Leu Thr Val Leu Phe Thr Leu Leu Val Phe Ile Ile Val
          20          25          30
Pro Ala Ile Phe Gly Val Ser Phe Gly Ile Arg Lys Leu Tyr Met Lys
          35          40          45
Ser Leu Leu Lys Ile Phe Ala Trp Ala Thr Leu Arg Met Glu Arg Gly
          50          55          60
Ala Lys Glu Lys Asn His Gln Leu Tyr Lys Pro Tyr Thr Asn Gly Ile
65          70          75          80
Ile Ala Lys Asp Pro Thr Ser Leu Glu Glu Glu Ile Lys Glu Ile Arg
          85          90          95

```

Arg Ser Gly Ser Ser Lys Ala Leu Asp Asn Thr Pro Glu Phe Glu Leu  
 100 105 110  
 Ser Asp Ile Phe Tyr Phe Cys Arg Lys Gly Met Glu Thr Ile Met Asp  
 115 120 125  
 Asp Glu Val Thr Lys Arg Phe Ser Ala Glu Glu Leu Glu Ser Trp Asn  
 130 135 140  
 Leu Leu Ser Arg Thr Asn Tyr Asn Phe Gln Tyr Ile Ser Leu Arg Leu  
 145 150 155 160  
 Thr Val Leu Trp Gly Leu Gly Val Leu Ile Arg Tyr Cys Phe Leu Leu  
 165 170 175  
 Pro Leu Arg Ile Ala Leu Ala Phe Thr Gly Ile Ser Leu Leu Val Val  
 180 185 190  
 Gly Thr Thr Val Val Gly Tyr Leu Pro Asn Gly Arg Phe Lys Glu Phe  
 195 200 205  
 Met Ser Lys His Val His Leu Met Cys Tyr Arg Ile Cys Val Arg Ala  
 210 215 220  
 Leu Thr Ala Ile Ile Thr Tyr His Asp Arg Glu Asn Arg Pro Arg Asn  
 225 230 235 240  
 Gly Gly Ile Cys Val Ala Asn His Thr Ser Pro Ile Asp Val Ile Ile  
 245 250 255  
 Leu Ala Ser Asp Gly Tyr Tyr Ala Met Val Gly Gln Val His Gly Gly  
 260 265 270  
 Leu Met Gly Val Ile Gln Arg Ala Met Val Lys Ala Cys Pro His Val  
 275 280 285  
 Trp Phe Glu Arg Ser Glu Val Lys Asp Arg His Leu Val Ala Lys Arg  
 290 295 300  
 Leu Thr Glu His Val Gln Asp Lys Ser Lys Leu Pro Ile Leu Ile Phe  
 305 310 315 320  
 Pro Glu Gly Thr Cys Ile Asn Asn Thr Ser Val Met Met Phe Lys Lys  
 325 330 335  
 Gly Ser Phe Glu Ile Gly Ala Thr Val Tyr Pro Val Ala Ile Lys Tyr  
 340 345 350  
 Asp Pro Gln Phe Gly Asp Ala Phe Trp Asn Ser Ser Lys Tyr Gly Met  
 355 360 365  
 Val Thr Tyr Leu Leu Arg Met Met Thr Ser Trp Ala Ile Val Cys Ser  
 370 375 380  
 Val Trp Tyr Leu Pro Pro Met Thr Arg Glu Ala Asp Glu Asp Ala Val  
 385 390 395 400  
 Gln Phe Ala Asn Arg Val Lys Ser Ala Ile Ala Arg Gln Gly Gly Leu  
 405 410 415  
 Val Asp Leu Leu Trp Asp Gly Gly Leu Lys Arg Glu Lys Val Lys Asp  
 420 425 430  
 Thr Phe Lys Glu Glu Gln Gln Lys Leu Tyr Ser Lys Met Ile Val Gly  
 435 440 445  
 Asn His Lys Asp Arg Ser Arg Ser  
 450 455

&lt;210&gt; 1926

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1926



```

Met Gly Pro Trp Gly Glu Pro Glu Leu Leu Val Trp Arg Pro Glu Ala
 1      5      10      15
Val Ala Ser Glu Pro Pro Val Pro Val Gly Leu Glu Val Lys Leu Gly
      20      25      30
Ala Leu Val Leu Leu Leu Val Leu Thr Leu Leu Cys Ser Leu Gly Ser
      35      40      45
Ile Gly Val Leu Arg Arg Thr Gly Ala Asn His Glu Gly Ser Ala Ser
      50      55      60
Arg Gln Lys Ala Leu Ser Leu Val Ser Cys Phe Ala Gly Gly Val Phe
65      70      75      80
Leu Ala Thr Cys Leu Leu Asp Leu Leu Pro Asp Tyr Leu Ala Ala Ile
      85      90      95
Asp Glu Ala Leu Ala Ala Leu His Val Thr Leu Gln Phe Pro Leu Gln
      100      105      110
Glu Phe Ile Leu Ala Met Gly Phe Leu Val Leu Val Met Glu Gln
      115      120      125
Ile Thr Leu Ala Tyr Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu
      130      135      140
Thr Arg Ala Leu Leu Gly Thr Val Asn Gly Gly Pro Gln His Trp His
145      150      155      160
Asp Gly Pro Gly Val Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser
      165      170      175
Ala Leu Arg Ala Cys Val Leu Val Phe Ser Leu Ala Leu His Ser Val
      180      185      190
Phe Glu Gly Leu Ala Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met
      195      200      205
Glu Leu Cys Leu Ala Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser
      210      215      220
Leu Ser Leu Arg Leu Leu Gln Ser His Leu Arg Ala Gln Val Val Ala
225      230      235      240
Gly Cys Gly Ile Leu Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu
      245      250      255
Gly Ala Ala Leu Ala Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln
      260      265      270
Ser Val Leu Glu Gly Met Ala Ala Gly Thr Phe Leu Tyr Ile Thr Phe
      275      280      285
Leu Glu Ile Leu Pro Gln Glu Leu Ala Ser Ser Glu Gln Arg Ile Leu
      290      295      300
Lys Val Ile Leu Leu Leu Ala Gly Phe Ala Leu Leu Thr Gly Leu Leu
305      310      315      320
Phe Ile Gln Ile

```

<210> 1927

<211> 15

<212> PRT

<213> Homo sapiens

<400> 1927

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Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp
 1      5      10      15

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<210> 1928  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1928  
 Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu  
 1 5 10 15  
 Asp Leu Gly Ser  
 20

<210> 1929  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1929  
 Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu  
 1 5 10 15  
 Gln Pro Gln Val  
 20

<210> 1930  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 1930  
 Leu Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala  
 1 5 10 15  
 Trp Phe Gly Val Asn Pro Gly Met  
 20

<210> 1931  
 <211> 1526  
 <212> DNA  
 <213> Homo sapiens

<400> 1931  
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 aggccttctta ccattcagca atttagttac tcattctggac tcatttttgc ctatctgccg 120  
 ggtgaatgac tttgagactg ctgatattct atgtccaaaa gcaaacgga caagtcgggtt 180  
 ttttaagtggc attatcaact ttattcactt cagagaagca tgccgtgaaa cgtatatgga 240  
 atttcttttg caatataaat cctctgcgga caaaatgcaa cagttaaagc ccgcacacca 300  
 ggaggcatta atgaaactgg agagacttga ttctgttcca gttgaagagc aagaagagtt 360  
 caagcagctt tcagatggaa ttcaggagct acaacaatca ctaaatcagg attttcatca 420  
 aaaaacgata gtgctgcaag agggaaattc caaaagaag tcaaataattt cagagaaaaac 480  
 caagcgtttg aatgaactaa aattgtttgt ggtttctttg aaagaaatac aagagagttt 540  
 gaaaacaaaa attgtggatt ctccagagaa gttaaagaat tataaagaaa aaatgaaaga 600  
 tacggtccag aagcttaaaa atgccagaca agaagtgggt gagaaatatg aaatctatgg 660  
 agactcagtt gactgcctgc cttcatgtca gttggaagtg cagttatatc aaaagaaaat 720

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<210> 1932
<211> 404
<212> PRT
<213> Homo sapiens
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			20					25					30		
Asp	Ser	Phe	Leu	Pro	Ile	Cys	Arg	Val	Asn	Asp	Phe	Glu	Thr	Ala	Asp
		35					40					45			
Ile	Leu	Cys	Pro	Lys	Ala	Lys	Arg	Thr	Ser	Arg	Phe	Leu	Ser	Gly	Ile
	50					55					60				
Ile	Asn	Phe	Ile	His	Phe	Arg	Glu	Ala	Cys	Arg	Glu	Thr	Tyr	Met	Glu
65					70					75				80	
Phe	Leu	Trp	Gln	Tyr	Lys	Ser	Ser	Ala	Asp	Lys	Met	Gln	Gln	Leu	Asn
				85					90					95	
Ala	Ala	His	Gln	Glu	Ala	Leu	Met	Lys	Leu	Glu	Arg	Leu	Asp	Ser	Val
			100					105					110		
Pro	Val	Glu	Glu	Gln	Glu	Glu	Phe	Lys	Gln	Leu	Ser	Asp	Gly	Ile	Gln
		115					120					125			
Glu	Leu	Gln	Gln	Ser	Leu	Asn	Gln	Asp	Phe	His	Gln	Lys	Thr	Ile	Val
	130					135					140				
Leu	Gln	Glu	Gly	Asn	Ser	Gln	Lys	Lys	Ser	Asn	Ile	Ser	Glu	Lys	Thr
145				150						155					160
Lys	Arg	Leu	Asn	Glu	Leu	Lys	Leu	Leu	Val	Val	Ser	Leu	Lys	Glu	Ile
			165						170					175	
Gln	Glu	Ser	Leu	Lys	Thr	Lys	Ile	Val	Asp	Ser	Pro	Glu	Lys	Leu	Lys
			180					185					190		
Asn	Tyr	Lys	Glu	Lys	Met	Lys	Asp	Thr	Val	Gln	Lys	Leu	Lys	Asn	Ala
		195					200					205			
Arg	Gln	Glu	Val	Val	Glu	Lys	Tyr	Glu	Ile	Tyr	Gly	Asp	Ser	Val	Asp
	210					215					220				
Cys	Leu	Pro	Ser	Cys	Gln	Leu	Glu	Val	Gln	Leu	Tyr	Gln	Lys	Lys	Ile
225				230						235					240
Gln	Asp	Leu	Ser	Asp	Asn	Arg	Glu	Lys	Leu	Ala	Ser	Ile	Leu	Lys	Glu
			245						250					255	
Ser	Leu	Asn	Leu	Glu	Asp	Gln	Ile	Glu	Ser	Asp	Glu	Ser	Glu	Leu	Lys

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<210> 1933
<211> 1836
<212> DNA
<213> Homo sapiens
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<400>	1933					
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aaacttccaa	gatggaaact	ttgtctttcc	ccagatataa	tgtagctgag	attgtgattc	180
atattcgcaa	taagatctta	acaggagctg	atggtaaaaa	cctcaccaag	aatgatcttt	240
atccaaatcc	aaagcctgaa	gtcttgca	tgatctacat	gagagcctta	caaatagtat	300
atggaattcg	actggaacat	ttttacatga	tgccagtgaa	ctctgaagtc	atgtatccac	360
atttaattgga	aggcttctta	ccattcagca	atntagttac	tcattctggac	tcattttttgc	420
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caagtcggtt	tttaagtggc	attatcaact	ttattcaact	cagagaagca	tgccgtgaaa	540
cgtatatgga	atttcttttg	caatataaat	cctctgcgga	caaaatgcaa	cagttaaaacg	600
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aagaagagtt	caagcagctt	tcagatggta	ttcaggagct	acaacaatca	ctaaatcagg	720
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<210> 1934
<211> 464
<212> PRT
<213> Homo sapiens
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<400>	1934														
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His	Ile	Arg	Asn 20	Lys	Ile	Leu	Thr	Gly 25	Ala	Asp	Gly	Lys	Asn 30	Leu	Thr
Lys	Asn	Asp 35	Leu	Tyr	Pro	Asn 40	Pro	Lys	Pro	Glu	Val	Leu 45	His	Met	Ile
Tyr	Met 50	Arg	Ala	Leu	Gln 55	Ile	Val	Tyr	Gly	Ile	Arg 60	Leu	Glu	His	Phe
Tyr 65	Met	Met	Pro	Val	Asn 70	Ser	Glu	Val	Met	Tyr 75	Pro	His	Leu	Met	Glu
Gly	Phe	Leu	Pro	Phe 85	Ser	Asn	Leu	Val	Thr 90	His	Leu	Asp	Ser	Phe 95	Leu
Pro	Ile	Cys	Arg 100	Val	Asn	Asp	Phe	Glu 105	Thr	Ala	Asp	Ile	Leu 110	Cys	Pro
Lys	Ala	Lys 115	Arg	Thr	Ser	Arg	Phe	Leu 120	Ser	Gly	Ile	Ile 125	Asn	Phe	Ile
His	Phe 130	Arg	Glu	Ala	Cys	Arg 135	Glu	Thr	Tyr	Met	Glu 140	Phe	Leu	Trp	Gln
Tyr 145	Lys	Ser	Ser	Ala	Asp 150	Lys	Met	Gln	Gln	Leu	Asn 155	Ala	Ala	His	Gln
Glu	Ala	Leu	Met	Lys 165	Leu	Glu	Arg	Leu	Asp 170	Ser	Val	Pro	Val	Glu 175	Glu
Gln	Glu	Glu	Phe 180	Lys	Gln	Leu	Ser	Asp 185	Gly	Ile	Gln	Glu	Leu 190	Gln	Gln
Ser	Leu	Asn 195	Gln	Asp	Phe	His	Gln 200	Lys	Thr	Ile	Val	Leu 205	Gln	Glu	Gly
Asn	Ser 210	Gln	Lys	Lys	Ser	Asn 215	Ile	Ser	Glu	Lys	Thr 220	Lys	Arg	Leu	Asn
Glu 225	Leu	Lys	Leu	Leu	Val 230	Val	Ser	Leu	Lys	Glu	Ile 235	Gln	Glu	Ser	Leu
Lys	Thr	Lys	Ile	Val 245	Asp	Ser	Pro	Glu	Lys	Leu	Lys	Asn	Tyr	Lys	Glu
Lys	Met	Lys	Asp 260	Thr	Val	Gln	Lys	Leu 265	Lys	Asn	Ala	Arg	Gln	Glu	Val
Val	Glu	Lys 275	Tyr	Glu	Ile	Tyr	Gly 280	Asp	Ser	Val	Asp	Cys 285	Leu	Pro	Ser
Cys	Gln 290	Leu	Glu	Val	Gln	Leu 295	Tyr	Gln	Lys	Lys	Ile	Gln	Asp	Leu	Ser
Asp 305	Asn	Arg	Glu	Lys	Leu 310	Ala	Ser	Ile	Leu	Lys	Glu	Ser	Leu	Asn	Leu
Glu	Asp	Gln	Ile	Glu 325	Ser	Asp	Glu	Ser	Glu	Leu	Lys	Lys	Leu	Lys	Thr
Glu	Glu	Asn	Ser	Phe 335	Lys	Arg	Leu	Met	Ile	Val	Lys	Lys	Glu	Lys	Leu

			340				345				350					
Ala	Thr	Ala	Gln	Phe	Lys	Ile	Asn	Lys	Lys	His	Glu	Asp	Val	Lys	Gln	
			355				360				365					
Tyr	Lys	Arg	Thr	Val	Ile	Glu	Asp	Cys	Asn	Lys	Val	Gln	Glu	Lys	Arg	
			370				375				380					
Gly	Ala	Val	Tyr	Glu	Arg	Val	Thr	Thr	Ile	Asn	Gln	Glu	Ile	Gln	Lys	
385					390				395				400			
Ile	Lys	Leu	Gly	Ile	Gln	Gln	Leu	Lys	Asp	Ala	Ala	Glu	Arg	Glu	Lys	
			405				410				415					
Leu	Lys	Ser	Gln	Glu	Ile	Phe	Leu	Asn	Leu	Lys	Thr	Ala	Leu	Glu	Lys	
			420				425				430					
Tyr	His	Asp	Gly	Ile	Glu	Lys	Ala	Ala	Glu	Asp	Ser	Tyr	Ala	Lys	Ile	
			435				440				445					
Asp	Glu	Lys	Thr	Ala	Glu	Leu	Lys	Arg	Lys	Met	Phe	Lys	Met	Ser	Thr	
			450				455				460					

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<210> 1935
<211> 26
<212> DNA
<213> Artificial Sequence
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<220>  
<223> PCR primer

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<400> 1935
ctatgttggc atgcggtgcc acgccc
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26

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<210> 1936
<211> 32
<212> DNA
<213> Artificial Sequence
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<220>  
<223> PCR primer

<400> 1936  
cacgcctaag atcttcatta aacttgtggt tg

32

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<210> 1937
<211> 159
<212> PRT
<213> Homo sapiens
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<400> 1937

Arg	Cys	His	Ala	His	Gly	Pro	Ser	Cys	Leu	Val	Thr	Ala	Ile	Thr	Arg
1				5					10					15	
Glu	Glu	Gly	Gly	Pro	Arg	Ser	Gly	Gly	Ala	Gln	Ala	Lys	Leu	Gly	Cys
			20					25					30		
Cys	Trp	Gly	Tyr	Pro	Ser	Pro	Arg	Ser	Thr	Trp	Asn	Pro	Asp	Arg	Arg
		35					40					45			
Phe	Trp	Thr	Pro	Gln	Thr	Gly	Pro	Gly	Glu	Gly	Arg	His	Glu	Arg	His
	50					55					60				
Thr	Gln	Thr	Gln	Asn	His	Thr	Ala	Ser	Pro	Arg	Ser	Pro	Val	Met	Glu

```

65          70          75          80
Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His Leu
      85          90          95
Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys Ala
      100         105         110
Thr Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile
      115         120         125
Asn Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile Ile Pro Lys Glu
      130         135         140
Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu Gln Pro Gln Val
      145         150         155

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<210> 1938  
 <211> 486  
 <212> DNA  
 <213> Homo sapiens

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<400> 1938
atgcggtgcc acgcccattg accttcttgt ctcgtcacgg ccataactag ggaggaagga 60
gggcccagga gtggaggggc tcaggcgaag ctgggggtgct gttgggggta tccgagtccc 120
agaagcacct ggaaccccgga cagaagattc tggactcccc agacgggacc aggagagggga 180
cggcatgagc gacacacaca aacacagaac cacacagcca gtcccaggag cccagtaatg 240
gagagcccca aaaagaagaa ccagcagctg aaagtcggga tcctacacct gggcagcaga 300
cagaagaaga tcaggataca gctgagatcc cagtgcgcga catggaaggt gatctgcaag 360
agctgcatca gtcaaacc ggggataaat ctggatttgg gttccggcgt caaggtgaag 420
ataataccta aagaggaaca ctgtaaaatg ccagaagcag gtgaagagca accacaagtt 480
taatga                                           486

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<210> 1939  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

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<400> 1939
ctatgttgca tatatgcggt gccacgcc

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28

<210> 1940  
 <211> 160  
 <212> PRT  
 <213> Homo sapiens

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<400> 1940
Met Arg Cys His Ala His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr
  1          5          10          15
Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly
      20          25          30
Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg
      35          40          45
Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg
      50          55          60

```

```

His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met
65          70          75          80
Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His
85          90          95
Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys
100        105        110
Ala Thr Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly
115        120        125
Ile Asn Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile Ile Pro Lys
130        135        140
Glu Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu Gln Pro Gln Val
145        150        155        160

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<210> 1941
<211> 486
<212> DNA
<213> Homo sapiens

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<400> 1941
atgCGgtgcc acgcccattg accttcttgt ctcgtcacgg ccataactag ggaggaagga 60
gggCCgagga gtggaggggc tcaggcgaag ctgggggtgct gttgggggta tccgagtccc 120
agaagcacct ggaaccccga cagaagattc tggactcccc agacgggacc aggagagggga 180
cggcattgagc gacacacaca aacacagaac cacacagcca gtcccaggag ccagtaatg 240
gagagcccca aaaagaagaa ccagcagctg aaagtcggga tcctacacct gggcagcaga 300
cagaagaaga tcaggataca gctgagatcc cagtgcgcga catggaaggt gatctgcaag 360
agctgcatca gtcaaacc ggggataaat ctggatttgg gttccggcgt caaggtgaag 420
ataataccta aagaggaaca ctgtaaaatg ccagaagcag gtgaagagca accacaagtt 480
taatga                                           486

```

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<210> 1942
<211> 19
<212> PRT
<213> Homo sapiens

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```

<400> 1942
Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Asp
1          5          10          15
Arg Pro Phe

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```

<210> 1943
<211> 20
<212> PRT
<213> Homo sapiens

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```

<400> 1943
Cys Ser Leu Gly Val Phe Pro Ser Ala Pro Ser Pro Val Trp Gly Thr
1          5          10          15
Arg Arg Ser Cys
20

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<210> 1944  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1944  
 Ile Leu Ser Pro Leu Leu Arg His Gly Gly His Thr Gln Thr Gln Asn  
 1 5 10 15  
 His Thr Ala Ser  
 20

<210> 1945  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1945  
 Met Arg Cys His Ala His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr  
 1 5 10 15  
 Arg Glu Glu Gly  
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<210> 1946  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1946  
 His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly  
 1 5 10 15  
 Pro Arg Ser Gly  
 20

<210> 1947  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1947  
 Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly  
 1 5 10 15  
 Ala Gln Ala Lys  
 20

<210> 1948  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1948

Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu  
 1 5 10 15  
 Gly Cys Cys Trp  
 20

<210> 1949  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1949  
 Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp Gly  
 1 5 10 15  
 Tyr Pro Ser Pro  
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<210> 1950  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1950  
 Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg  
 1 5 10 15  
 Ser Thr Trp Asn  
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<210> 1951  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1951  
 Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro  
 1 5 10 15  
 Asp Arg Arg Phe  
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<210> 1952  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1952  
 Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg Arg Phe Trp  
 1 5 10 15  
 Thr Pro Gln Thr  
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<210> 1953  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1953  
 Arg Ser Thr Trp Asn Pro Asp Arg Arg Phe Trp Thr Pro Gln Thr Gly  
 1 5 10 15  
 Pro Gly Glu Gly  
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<210> 1954  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1954  
 Pro Asp Arg Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg  
 1 5 10 15  
 His Glu Arg His  
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<210> 1955  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1955  
 Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg His Thr  
 1 5 10 15  
 Gln Thr Gln Asn  
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<210> 1956  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1956  
 Gly Pro Gly Glu Gly Arg His Glu Arg His Thr Gln Thr Gln Asn His  
 1 5 10 15  
 Thr Ala Ser Pro  
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<210> 1957  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1957

Arg His Glu Arg His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg  
 1 5 10 15

Ser Pro Val Met  
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<210> 1958

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1958

Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met Glu  
 1 5 10 15

Ser Pro Lys Lys  
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<210> 1959

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1959

His Thr Ala Ser Pro Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys  
 1 5 10 15

Asn Gln Gln Leu  
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<210> 1960

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1960

Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys  
 1 5 10 15

Val Gly Ile Leu  
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<210> 1961

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1961

Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His  
 1 5 10 15

Leu Gly Ser Arg  
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<210> 1962  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1962  
 Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln  
 1 5 10 15  
 Lys Lys Ile Arg  
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<210> 1963  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1963  
 Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile  
 1 5 10 15  
 Gln Leu Arg Ser  
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<210> 1964  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1964  
 His Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln  
 1 5 10 15  
 Cys Ala Thr Trp  
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<210> 1965  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 1965  
 Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys Ala Thr Trp  
 1 5 10 15  
 Lys Val Ile Cys Lys  
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<210> 1966  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1966

Ile Gln Leu Arg Ser Gln Cys Ala Thr Trp Lys Val Ile Cys Lys Ser  
 1 5 10 15  
 Cys Ile Ser Gln  
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<210> 1967  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 1967  
 Ser Gln Cys Ala Thr Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln  
 1 5 10 15  
 Thr Pro Gly Ile Asn  
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<210> 1968  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1968  
 Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu  
 1 5 10 15  
 Asp Leu Gly Ser  
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<210> 1969  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1969  
 Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu Asp Leu Gly Ser Gly  
 1 5 10 15  
 Val Lys Val Lys  
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<210> 1970  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1970  
 Thr Pro Gly Ile Asn Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile  
 1 5 10 15  
 Ile Pro Lys Glu  
 20

<210> 1971  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1971  
 Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile Ile Pro Lys Glu Glu  
 1 5 10 15  
 His Cys Lys Met  
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<210> 1972  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1972  
 Gly Val Lys Val Lys Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro  
 1 5 10 15  
 Glu Ala Gly Glu  
 20

<210> 1973  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1973  
 Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu  
 1 5 10 15  
 Gln Pro Gln Val  
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<210> 1974  
 <211> 60  
 <212> DNA  
 <213> Homo sapiens

<400> 1974  
 atgcggtgcc acgccatgg accttcttgt ctcgtcacgg ccataactag ggaggaagga 60

<210> 1975  
 <211> 60  
 <212> DNA  
 <213> Homo sapiens

<400> 1975  
 catggacctt cttgtctcgt cacggccata actagggagg aaggagggcc gaggagtgga 60

<210> 1976  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1976  
ctcgtcacgg ccataactag ggaggaagga gggccgagga gtggaggggc tcaggcgaag 60

<210> 1977  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1977  
actagggagg aaggagggcc gaggagtgga ggggctcagg cgaagctggg gtgctgttgg 60

<210> 1978  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1978  
gggccgagga gtggaggggc tcaggcgaag ctggggtgct gttgggggta tccgagtccc 60

<210> 1979  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1979  
ggggctcagg cgaagctggg gtgctgttgg gggatatccga gtcccagaag cacctggaac 60

<210> 1980  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1980  
ctggggtgct gttgggggta tccgagtccc agaagcacct ggaaccccga cagaagattc 60

<210> 1981  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1981  
gggtatccga gtcccagaag cacctggaac cccgacagaa gattctggac tcccagacg 60



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<210> 1982
<211> 60
<212> DNA
<213> Homo sapiens
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<400> 1982
agaagcacct ggaaccccgga cagaagattc tggactcccc agacgggacc aggagagggga 60
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<210> 1983
<211> 60
<212> DNA
<213> Homo sapiens
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<400> 1983  
cccgacagaa gattctggac tccccagacg ggaccaggag agggacggca tgagcgacac 60

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<210> 1984
<211> 60
<212> DNA
<213> Homo sapiens
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<400> 1984  
tggactcccc agacgggacc aggagagggga cggcatgagc gacacacaca aacacagaac 60

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<210> 1985
<211> 60
<212> DNA
<213> Homo sapiens
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<400> 1985  
ggaccaggag agggacggca tgagcgacac acacaaacac agaaccacac agccagtccc 60

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<210> 1986
<211> 61
<212> DNA
<213> Homo sapiens
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<400> 1986
cggcattgagc gacacaacac aaacacagaa ccacacagcc agtcccagga gcccgagtaat 60
g                                                    61
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<210> 1987
<211> 60
<212> DNA
<213> Homo sapiens
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<400> 1987  
acacaaacac agaaccacac agccagtccc aggagcccag taatggagag ccccaaaaag 60

<210> 1988  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1988  
cacacagcca gtcccaggag cccagtaatg gagagcccca aaaagaagaa ccagcagctg 60

<210> 1989  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1989  
aggagcccag taatggagag ccccaaaaag aagaaccagc agctgaaagt cgggataccta 60

<210> 1990  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1990  
gagagcccca aaaagaagaa ccagcagctg aaagtcggga tcctacacct gggcagcaga 60

<210> 1991  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1991  
aagaaccagc agctgaaagt cgggataccta cacctgggca gcagacagaa gaagatcagg 60

<210> 1992  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1992  
aaagtcggga tcctacacct gggcagcaga cagaagaaga tcaggatata gctgagatcc 60

<210> 1993  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1993  
cacctgggca gcagacagaa gaagatcagg atacagctga gatcccagtg cgcgacatgg 60

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<210> 1999
<211> 60
<212> DNA
<213> Homo sapiens

<400> 1999
acaccgggga taaatctgga tttgggttcc ggcgtcaagg tgaagataat acctaaagag 60
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<400> 2000  
ctggatttgg gttccggcgt caaggtgaag ataataccta aagaggaaca ctgtaaaatg 60

<400> 2001  
ggcgtcaagg tgaagataat acctaaagag gaacactgta aaatgccaga agcaggtgaa 60

<400> 2002  
ataataccta aagaggaaca ctgtaaaatg ccagaagcag gtgaagagca accacaagtt 60